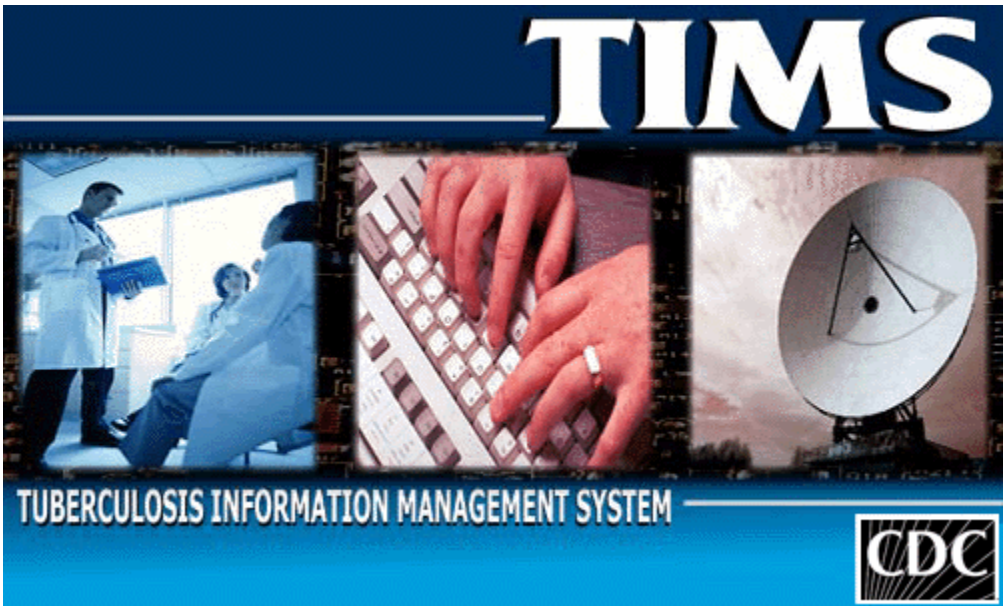

TIMS Installation and Upgrade Guide

Version 1.20
March 2003

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Centers for Disease Control and Prevention
National Center for HIV, STD and TB Prevention
Division of Tuberculosis Elimination

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1. Introduction

The TIMS 1.20 Setup CD is a complete TIMS installation and upgrade disk which replaces all previous TIMS Setup disks. It contains all the components needed to upgrade an existing TIMS Surveillance or Patient Management site, set up a new TIMS site, add or upgrade TIMS workstations, and install or upgrade a TIMS network database server.

In addition to many new features and improvements, the TIMS 1.20 maintenance release includes upgrades to the base software, including PowerBuilder 6.5, Sybase SQL Anywhere v5.5.05 plus supporting drivers, utilities and runtime libraries. Since many of these components reside on each TIMS workstation, installing this release will require running the setup program on each one.

2. General Information

TIMS is a 2-tier client/server application for Windows workstations that can run in a variety of configurations. You can set up TIMS as a single-user desktop application or as a multi-user network application. TIMS was developed using the PowerBuilder 6.5 programming environment. It uses an ODBC connection to a Sybase SQL Anywhere 5.5 relational database. In a multi-user network environment, the ODBC connection is managed by a Sybase communications component using one of a variety of network protocols -- TCPIP and IPX the most common. No direct user access to the database is required since the data can be accessed and manipulated only via calls to the Sybase communications component. This greatly enhances security by allowing the database to be locked down so that only authorized users may access it using the TIMS client.

Minimum platform recommendations are given below. Depending on your environment and hardware availability, TIMS usually can co-exist peacefully with other applications.

Minimum Workstation Requirements:
Intel 486 or Pentium-class (recommended) processor
Microsoft Windows 95, 98, NT or 2000
16MB RAM
20-60MB available disk storage
9600-19,200 baud Hayes-compatible modem (one workstation only)

Minimum Network Server Requirements (for multi-user TIMS only):
Intel 486 (minimum) or Pentium-class (recommended) processor
Novell NetWare 3.x, 4.x, 5.x -or- Microsoft Windows 95/98/NT/2000
32MB RAM
20-50MB available disk storage (depending on volume of data)

At this time TIMS is **not** Windows XP certified.

3. Before Getting Started

If you are upgrading an existing TIMS site, please be sure to **back up your database!** The TIMS 1.20 installation program will perform a series of updates on your TIMS database to make it compatible with the new version of TIMS. It is possible that you will need to access the pre-upgrade copy of the database in case problems or questions arise. If you are installing TIMS for the first time or reinstalling TIMS, a new, unregistered database will be installed. In no case will the installation program overwrite an existing TIMS database.

If you are installing or upgrading TIMS in a LAN configuration, you should first determine the location on the network where the Sybase and TIMS application components will be placed, and

ensure that your workstations are mapped to those directories (folders) and that you have proper read/write authority to them. In most cases, a network administrator should be available to assist with the installation.

After the setup is complete, all workstations and users must retain the mapping and rights to the TIMS application directory. However, direct access to the Sybase directory is not required.

4. Installation

4.1 Installation Overview

TIMS can be installed in one of two basic configurations: Standalone for a single-user desktop system or LAN for a multi-user network system. For the Standalone configuration, all TIMS components are installed on the workstation. The LAN configuration consists of a separate Sybase network database engine running on a server with multiple client workstations accessing the TIMS database via network protocols. For this type of setup, TIMS components are installed on each TIMS workstation in addition to a common shared application directory on the network.

The installation CD contains all the software needed to install a new TIMS site or to upgrade an existing site. If a CD-ROM drive is not available on each workstation, the CD contains diskette images that can be copied to create a set of installation diskettes.

There are two setup programs contained on the CD: one to install or upgrade for the Sybase network database engine and the other to install or upgrade the TIMS application in either Standalone or LAN configurations. The general procedure to install or upgrade each configuration type is given below:

A. TIMS Standalone with Windows 95, 98, NT Workstation or 2000

1. *Upgrade existing TIMS workstation (4.2.1)*
    a) Make a database backup
    b) Log off of TIMS
    c) Run E:\SETUP.EXE
    d) Choose STANDALONE UPGRADE
    e) Check components 1,2,3,4
    f) Make a new database backup
2. *Install new TIMS workstation (requires Spin-off Diskette) (4.2.2)*
    a) Run E:\SETUP.EXE
    b) Choose STANDALONE NEW INSTALL
    c) Check components 1,2,3,5
    d) Start TIMS, insert Spin-off Diskette and complete the registration process (TIMS Helpdesk support required)

B. TIMS LAN with Windows Workstations and Novell NetWare Server for Sybase Engine

1. *Upgrade existing TIMS components*
    a) All users log off of TIMS
    b) Make a database backup
    c) Upgrade the Sybase engine components to v5.5.05 (4.2.5.1)
        (i) Unload the Sybase engine at the NetWare console
        (ii) From a Windows workstation, run E:\SYBASE\SETUP.EXE
        (iii) Select the Sybase for Novell NetWare 4-, 8-, or 16-user version (password required)
        (iv) Select the correct path for the Sybase files

(v) Reload the Sybase engine using TIMSTART.NCF

d) Upgrade the first TIMS workstation (4.2.3.1)
   (i) Run E:\SETUP.EXE
   (ii) Choose LAN UPGRADE
   (iii) Select the correct path for the destination folder (application directory)
   (iv) Check components 1,2,3,4
   (v) Select Restart Workstation after setup is complete
   (vi) Start TIMS and login
   (vii) Complete the TIMS 1.20 Scrub Reports
   (viii) Perform a file transfer to next level and Acknowledge
   (ix) Make a new database backup

e) Upgrade each additional TIMS workstation (4.2.3.2)
   (i) Run E:\SETUP.EXE
   (ii) Choose Workstation
   (iii) Select the correct path for the destination folder (should be same as on initial workstation)
   (iv) Check components 1,2
   (v) Select Restart Workstation after setup is complete

2. *Install new TIMS server and workstations (requires Spin-off Diskette) (4.2.6.1)*

a) Install the Sybase v5.5.05 engine components
   (i) From a Windows workstation, run E:\SYBASE\SETUP.EXE
   (ii) Select the Sybase for Novell NetWare 4-, 8-, or 16-user version (password required) plus New TIMS Database
   (iii) Select a path for the Sybase files
   (iv) Load the Sybase engine using TIMSTART.NCF

b) Install the first TIMS workstation (modem required) (4.2.4.1)
   (i) Run E:\SETUP.EXE
   (ii) Choose LAN NEW INSTALL
   (iii) Select a path for the destination folder (application directory)
   (iv) Check components 1,2,3
   (v) Select Restart Workstation after setup is complete
   (vi) Start TIMS, insert Spin-off Diskette and complete the registration process (TIMS Helpdesk support required)

c) Install each additional TIMS workstation (4.2.4.2)
   (i) Run E:\SETUP.EXE
   (ii) Choose WORKSTATION
   (iii) Select the correct path for the destination folder (should be same as on primary workstation)
   (iv) Check components 1,2
   (v) Select Restart Workstation after setup is complete

C. TIMS LAN with Windows Workstations and Windows NT Server for Sybase Engine

1. *Upgrade existing TIMS components*

a) All users must log out of TIMS
b) Make a database backup
c) Upgrade the Sybase engine components to v5.5.05 (4.2.5.2)
   (i) Unload the Sybase engine by either closing the window or stopping the service (WinNT only)
   (ii) From a Windows workstation, run E:\SYBASE\SETUP.EXE
   (iii) Select the Sybase for Windows 4-, 8-, or 16-user version (password required)

(iv) Select the correct path for the Sybase files
(v) Reload the Sybase engine by clicking the shortcut or restarting the service (WinNT only)

d) Upgrade the first TIMS workstation (4.2.3.1)
   (i) Run E:\TIMS\SETUP.EXE
   (ii) Choose WORKSTATION
   (iii) Select the correct path for the destination folder (application directory)
   (iv) Check components 1,2,3,4
   (v) Select Restart Workstation after setup is complete
   (vi) Start TIMS and login
   (vii) Complete the TIMS 1.20 Scrub Reports
   (viii) Perform a file transfer to next level and Acknowledge
   (ix) Make a new database backup

e) Upgrade each additional TIMS workstation (4.2.3.2)
   (i) Run E:\TIMS\SETUP.EXE
   (ii) Choose LAN UPGRADE
   (iii) Select the correct path for the destination folder (should be same as on initial workstation)
   (iv) Check components 1,2
   (v) Select Restart Workstation after setup is complete

2. *Install new TIMS server and workstations (requires Spin-off Diskette)*

a) Install the Sybase v5.5.05 engine components *(4.2.6.2)*
   (i) From a Windows workstation, run E:\SYBASE\SETUP.EXE
   (ii) Select the Sybase for Windows 4-, 8-, or 16-user version (password required) plus New TIMS Database
   (iii) Select a path and for the Sybase files
   (iv) Optional for Windows NT only, setup a service by running the Sybase Service Manager
   (v) Load the Sybase engine by clicking the shortcut or starting the service (WinNT only)

b) Install the first TIMS workstation (modem required) (4.2.4.1)
   (i) Run E:\TIMS\SETUP.EXE
   (ii) Choose LAN NEW INSTALL
   (iii) Select a path for the destination folder (application directory)
   (iv) Check components 1,2,3
   (v) Select Restart Workstation after setup is complete

c) Start TIMS, insert Spin-off Diskette and complete the registration process (TIMS Helpdesk support required)

d) Install each additional TIMS workstation (4.2.4.2)
   (i) Run E:\TIMS\SETUP.EXE
   (ii) Choose WORKSTATION
   (iii) Select the correct path for the destination folder (should be same as on primary workstation)
   (iv) Check components 1,2
   (v) Select Restart Workstation after setup is complete

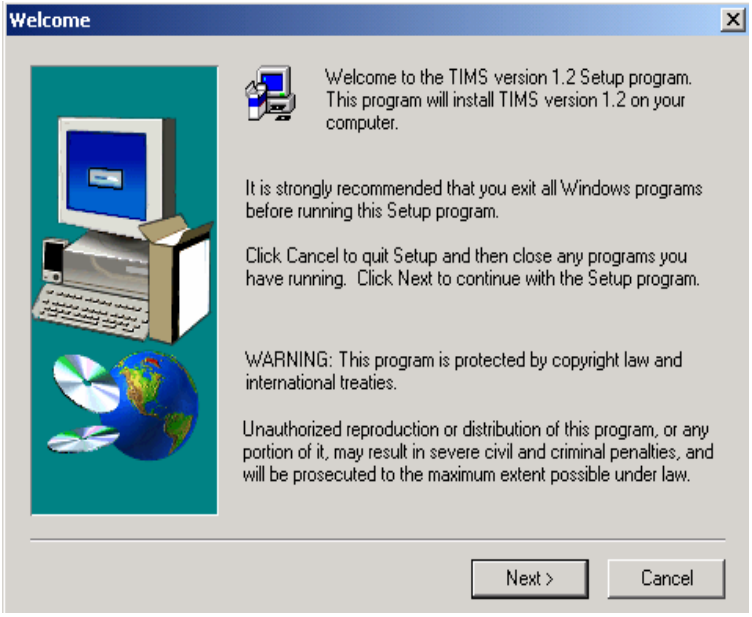
4.2 Installation Details

This section provides detailed step-by-step instructions for upgrading a workstation or creating a new workstation for each type of configuration:

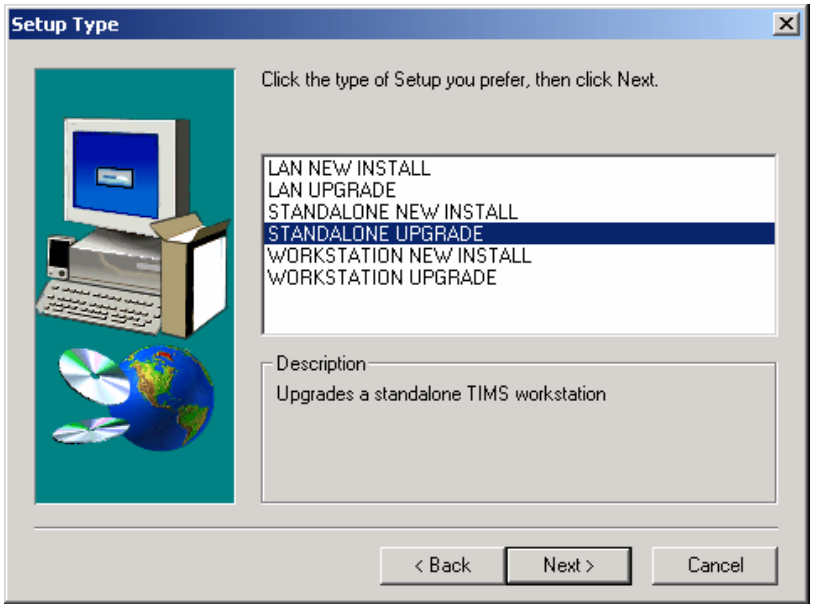
A. TIMS Standalone under Windows 95, 98, NT or 2000
B. TIMS LAN under Windows 95, 98, NT or 2000 with Novell NetWare server for the Sybase engine
C. TIMS LAN under Windows 95, 98, NT or 2000 with Windows NT server for the Sybase engine

4.2.1 Upgrade an Existing TIMS Standalone Workstation

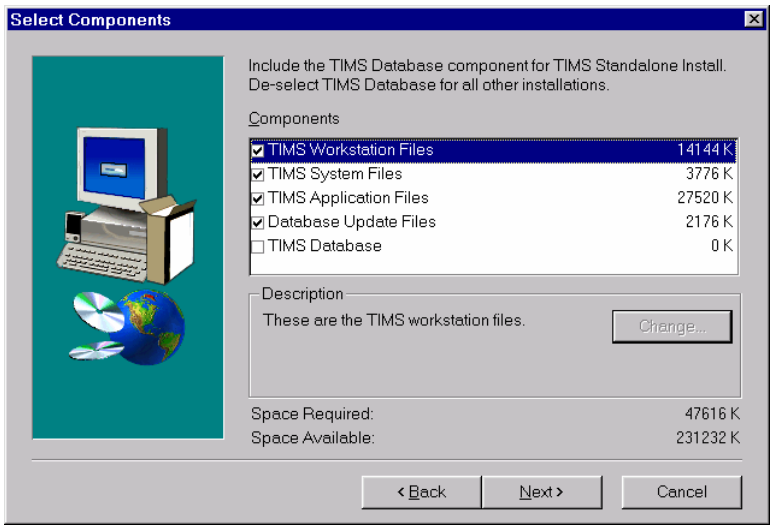
1. Log into TIMS and perform a database backup.
2. Log out of TIMS No data entry should be done until the upgrade procedures are complete.
3. Insert the TIMS 1.20 Setup CD into the CD-ROM drive.
4. The TIMS 1.20 Setup program should start automatically. If it does not, go to Start, Run E:\SETUP.EXE (where E: is the CD-ROM drive letter).
5. The first screen to appear is the Setup **Welcome** screen. If you want to continue, click "Next>". If not, click "Cancel" to exit the program.



6. Next, select the type of Setup to install from the **Setup Type** screen. The setup program will select a default based on whether TIMS is currently installed on the workstation. If the default Setup type is correct, click "Next>" to proceed. If you want to change the Setup type, highlight the one you want then click "Next>".

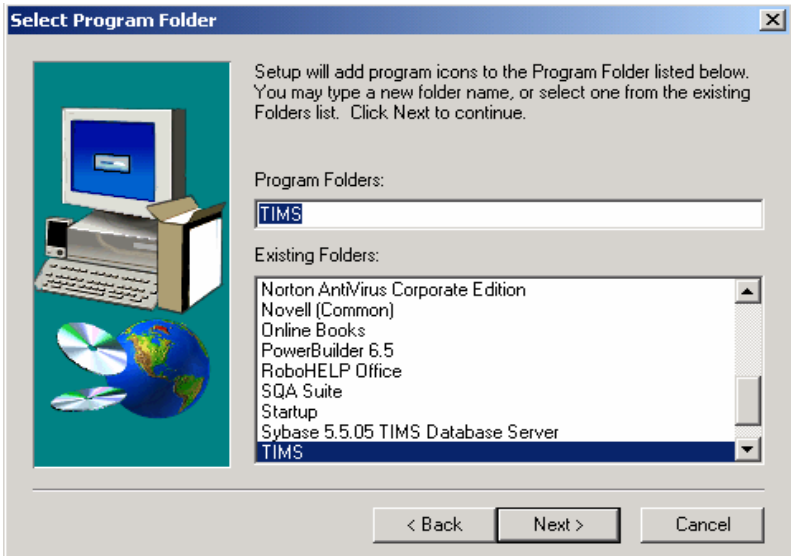


7. The **Select Components** screen appears. For a standalone workstation upgrade, the first four components must be installed. By default, these are already selected. Click "Next>" to continue.

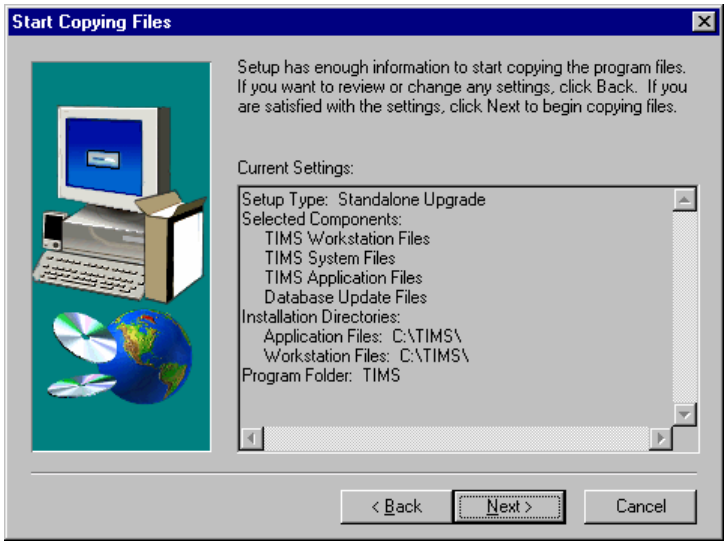


8. The TIMS setup program will create a program folder to contain the shortcuts for TIMS and TIMS Utility. By default, this is named "TIMS" and will be created if it doesn't already exist. To create a folder with a different name, type the new name on the **Select Program Folder** screen or select an existing folder from the list. Click "Next>" to proceed.

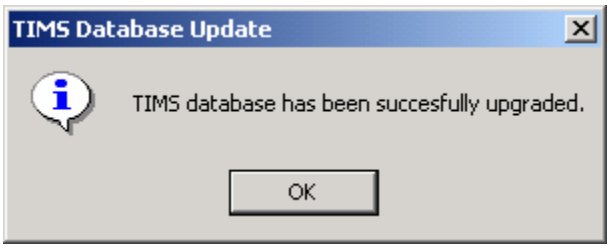
   Note: *You can create a shortcut on the Windows desktop by copying the icons from this folder to the desktop.*



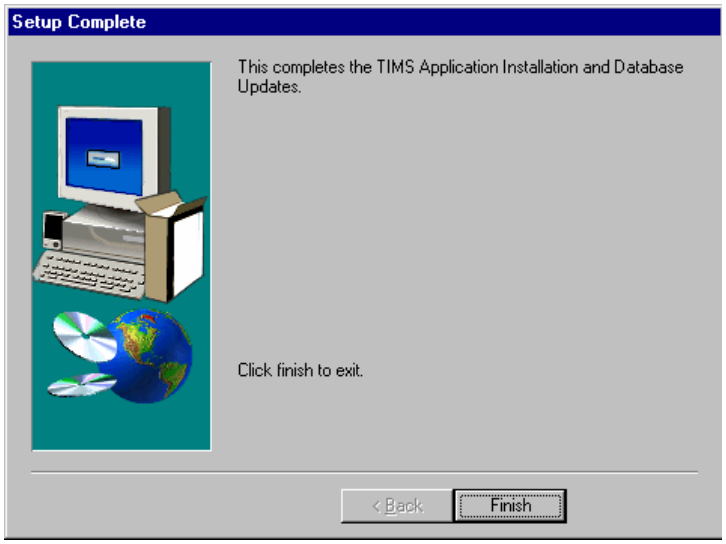
9. The **Start Copying Files** screen will appear. The Setup program is now ready to copy all the program files to the workstation hard disk. For a standalone configuration, most files are installed to C:\TIMS. However, some are copied to the Windows System directory. Click "Next>" to proceed.



10. Next, the Setup program will run the Database Update portion of the installation. This step will display a progress bar and may take several minutes to complete depending on the size of the database. After the Database Update is finished a message will confirm that the database has been successfully upgraded to TIMS 1.20. Click “OK” to proceed.



11. Next, the **Setup Complete** screen will be displayed. Click "Finish" to complete the installation setup.

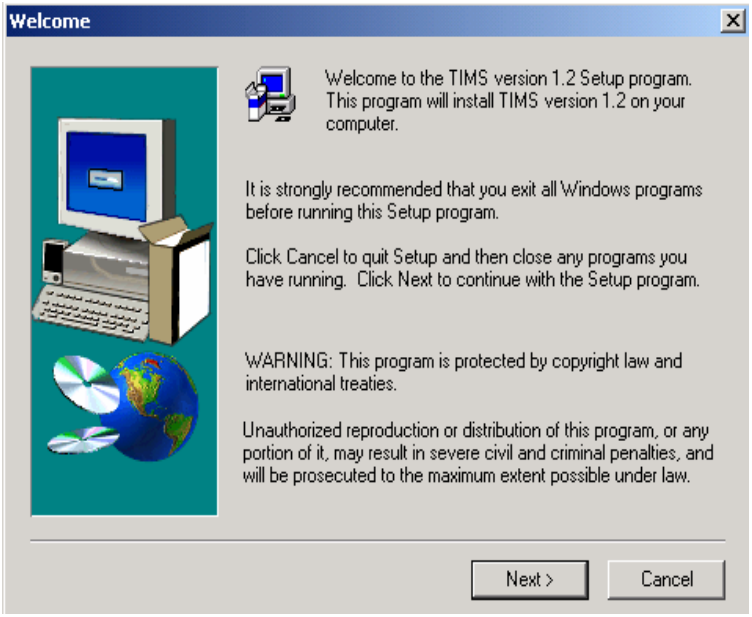


12. TIMS 1.20 is now installed. You must reboot the workstation for the new settings to take effect. On the **Restarting Windows** screen, select “Yes, I want to restart my computer now” and Click “OK” to restart your computer automatically.

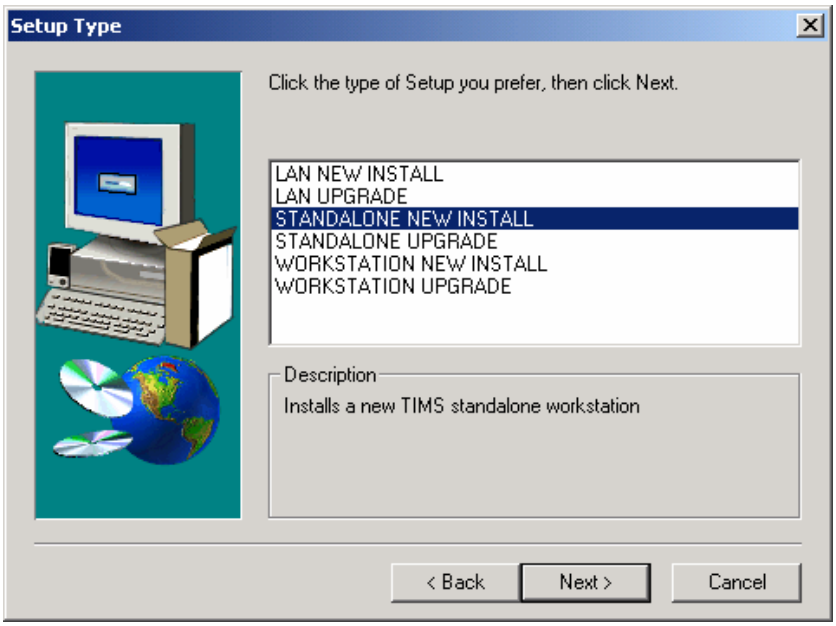
13. Finally, take a new database backup. This is important in case recovery should become necessary since any prior backups will not have had the TIMS 1.20 upgrade performed on them and will not be usable unless that process is repeated on them.

4.2.2 Create a New TIMS Standalone Workstation

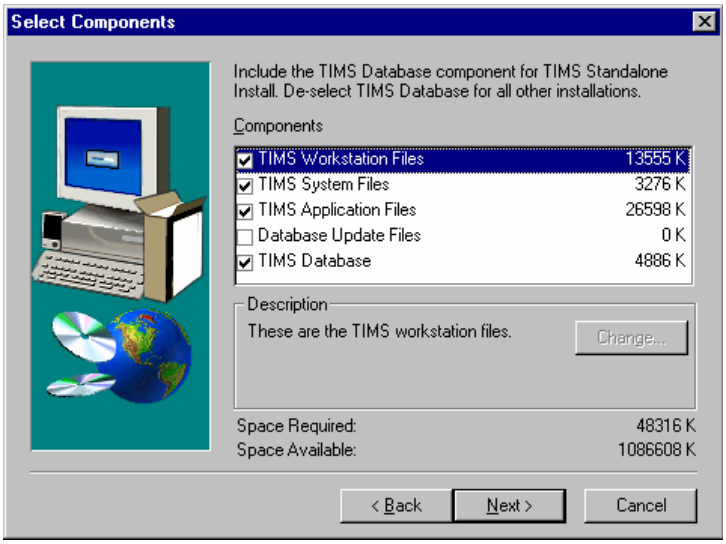
1. Insert the TIMS 1.20 Setup CD into the CD-ROM drive.
2. The TIMS 1.20 Setup program should start automatically. If it does not go to Start, Run E:\SETUP.EXE (where E: is the CD-ROM drive letter).
3. The first screen to appear is the **Welcome** screen. If you want to continue, click "Next>". If not, click "Cancel" to exit the program.



4. Next you must select the type of Setup to install from the **Setup Type** screen. The setup program will select a default based on whether TIMS is currently installed on the workstation. If the default Setup type is correct, click "Next>" to proceed. If you want to change the Setup type, highlight the one you want then click "Next>".

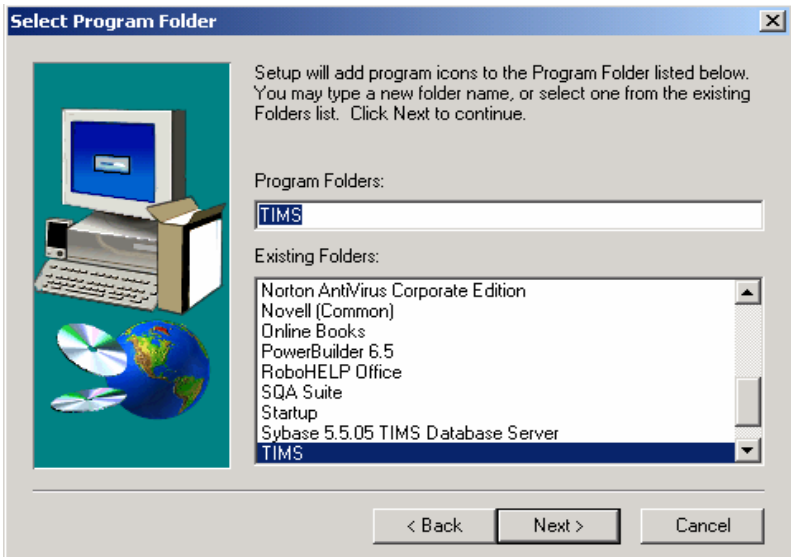


5. Next is the **Select Components** screen. For a standalone new install, the first three components and the last component must be installed. By default, these are already selected. Click "Next>" to continue.

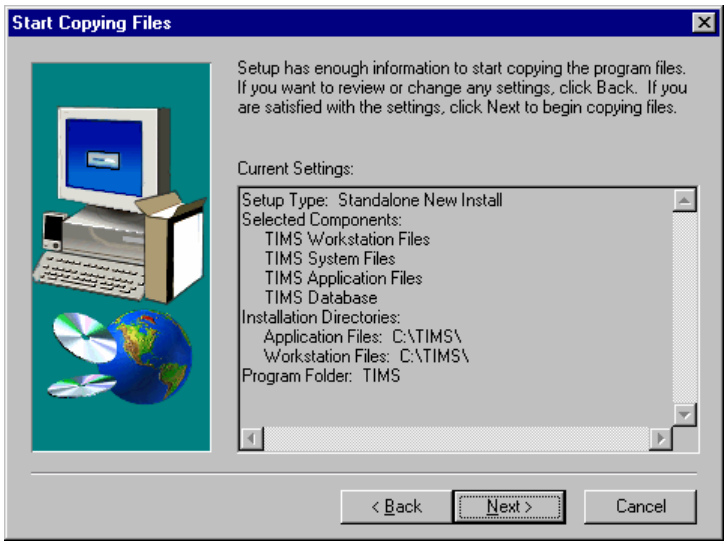


6. The TIMS setup program will create a program folder to contain the shortcuts for TIMS and TIMS Utility. By default, this is named "TIMS" and will be created if it doesn't already exist. To create a folder with a different name, type the new name on the **Select Program Folder** screen or select an existing folder from the list. Click "Next>" to proceed.

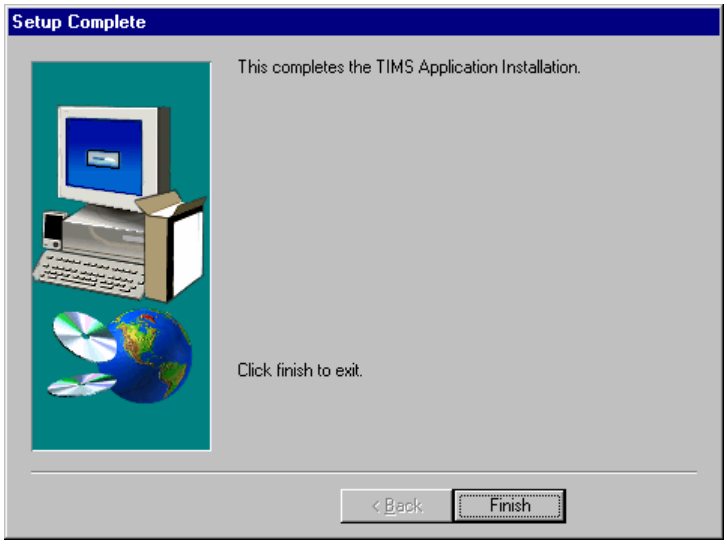
   Note: *You can create a shortcut on the Windows desktop by copying the icons from this folder to the desktop.*



7. The Setup program is now ready to copy all the program files to the workstation hard disk. For a standalone configuration, most files are installed to C:\TIMS. However, some are copied to the Windows System directory. Click "Next>" to proceed.



8. Next, the **Setup Complete** screen will be displayed. Click "Finish" to complete the installation setup.



9. TIMS 1.20 is now installed and you must reboot the workstation for the new settings to take effect. On the **Restarting Windows** screen, select "Yes, I want to restart my computer now" and Click "OK" to restart your computer automatically.

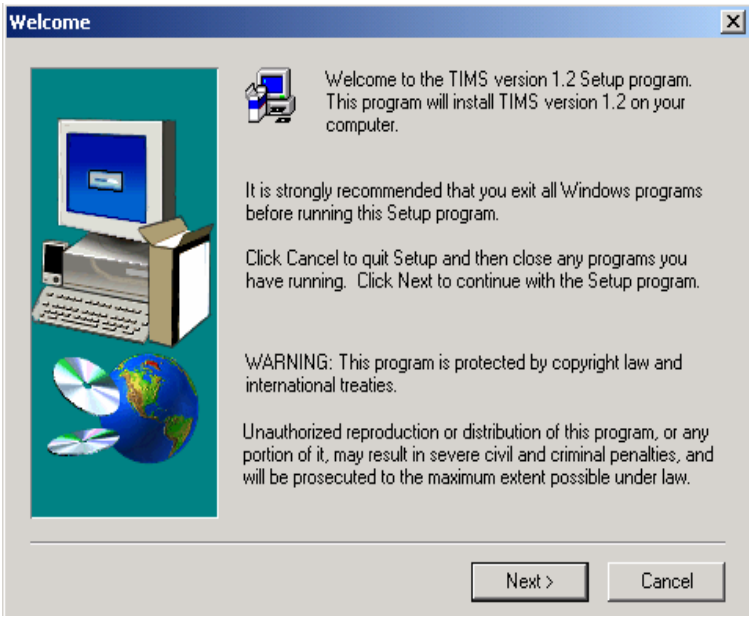
10. Once the workstation is restarted the user may log into TIMS 1.20. On the initial login, TIMS will require a Spin-off Diskette and Completion of the Registration Process (Call TIMS Helpdesk)

4.2.3 Upgrade an Existing TIMS LAN Workstation

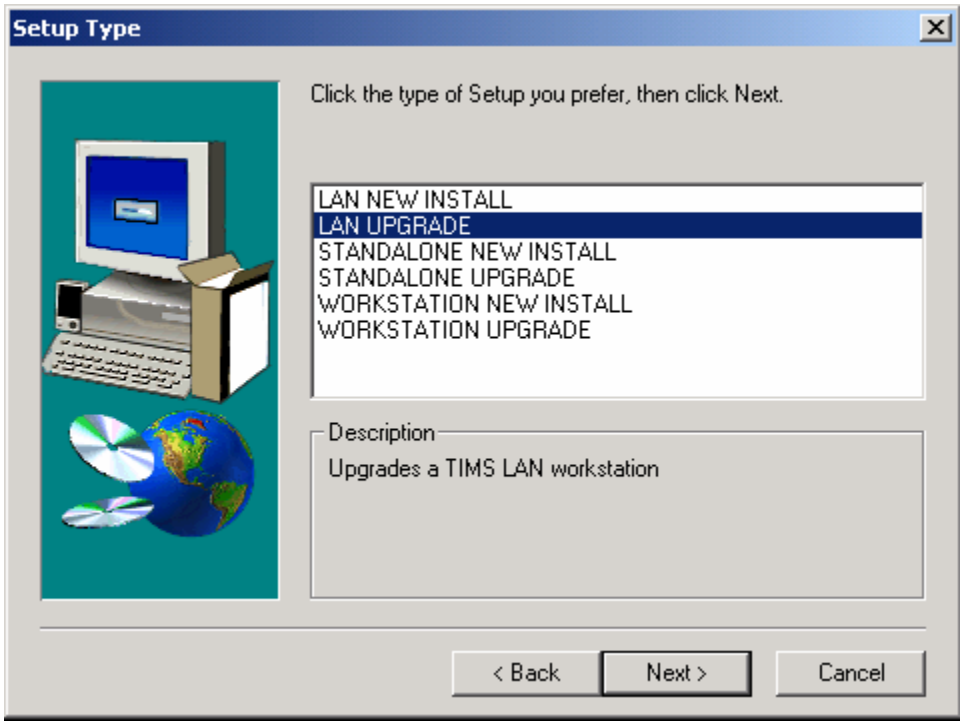
For the first upgrade of an existing LAN workstation, follow the steps in the **One-time upgrade for the first workstation** section. This will provide steps to upgrade your database, Sybase engine components and one workstation. Note that the first workstation will require a modem. After completion of this process, follow the steps in the **Upgrade for each additional workstation** section to upgrade all additional workstations.

4.2.3.1 One-time upgrade for the first workstation

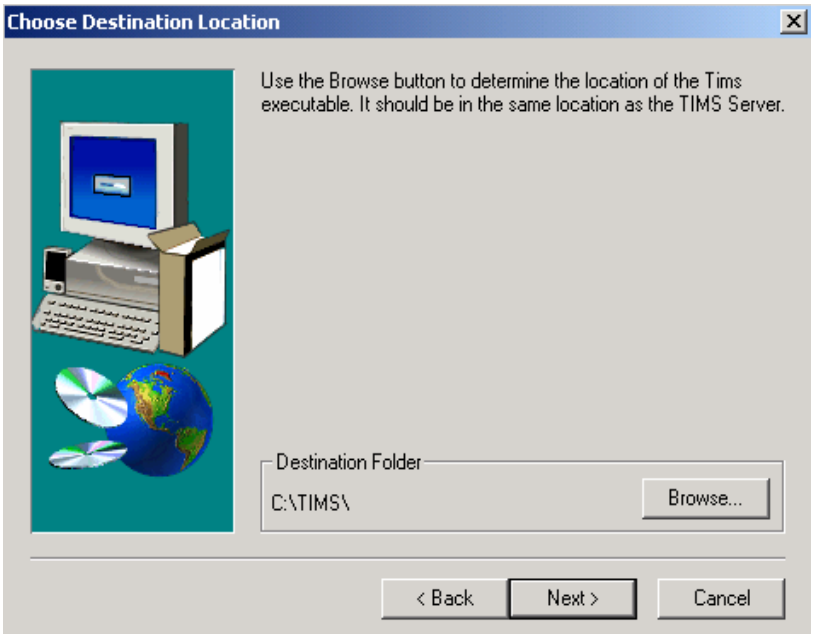
1. Log into TIMS and perform a database backup.
2. Log out of TIMS. No data entry should be done until the upgrade procedures are complete.
3. Insert the TIMS 1.20 Setup CD into the CD-ROM drive.
4. The TIMS 1.20 Setup program will start automatically. If you need to upgrade the Sybase engine components to v5.5.05, then click “Cancel” to exit the program and follow the steps for upgrading these components in the **Upgrade Sybase Engine Components to v5.5.05** section later in this document. When the Sybase upgrade is complete, go to Start, Run E:\SETUP.EXE (where E: is the CD-ROM drive letter) and continue with the TIMS Setup.
5. The first screen to appear is the **Welcome** screen. If you want to continue, click "Next>". If not, click "Cancel" to exit the program.



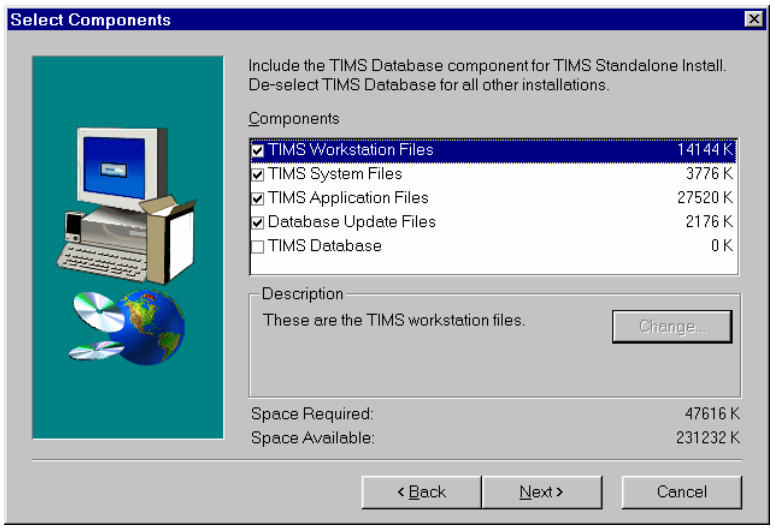
6. Next you must select the type of Setup to install from the **Setup Type** screen. The setup program will select a default based on whether TIMS is currently installed on the workstation. If the default Setup type is correct, click "Next>" to proceed. If you want to change the Setup type, highlight the one you want then click "Next>".



7. Next is the **Choose Destination Location** screen. Using the "Browse" button, select the application directory. Click "Next>" to proceed.

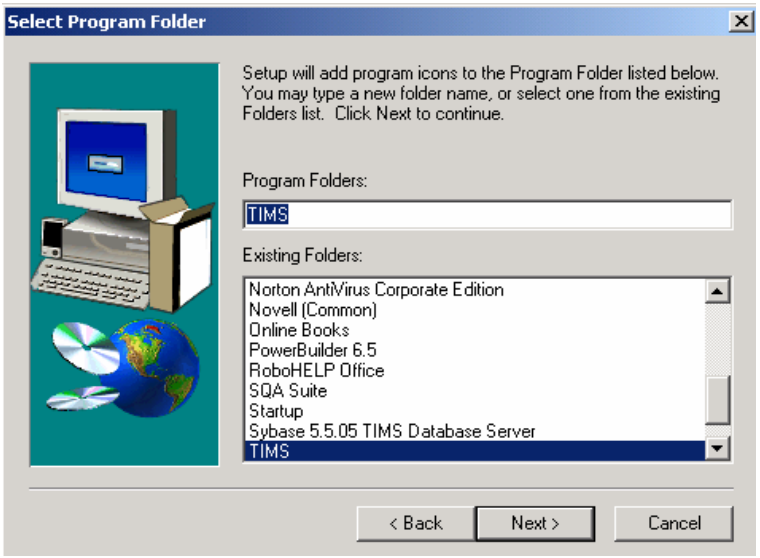


8. Next is the **Select Components** screen. For the first workstation LAN upgrade, the first four components must be installed. By default, these are already selected. Click "Next>" to continue.

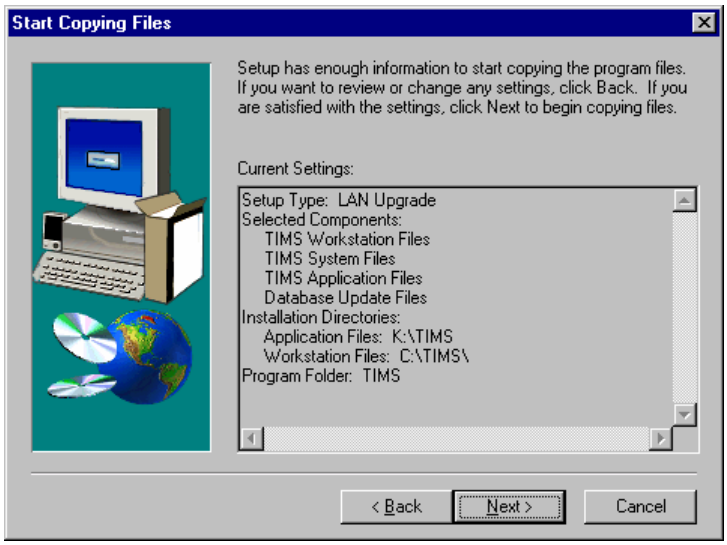


9. The TIMS setup program will create a program folder to contain the shortcuts for TIMS and TIMS Utility. By default, this is named "TIMS" and will be created if it doesn't already exist. To create a folder with a different name, type the new name on the **Select Program Folder** screen or select an existing folder from the list. Click "Next>" to proceed.

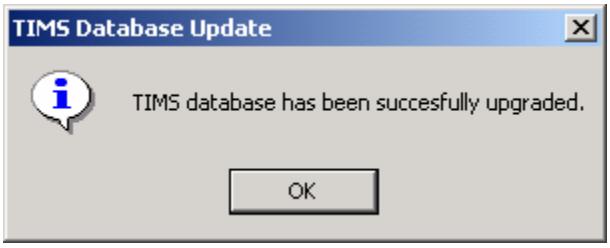
   Note: *You can create a shortcut on the Windows desktop by copying the icons from this folder to the desktop.*



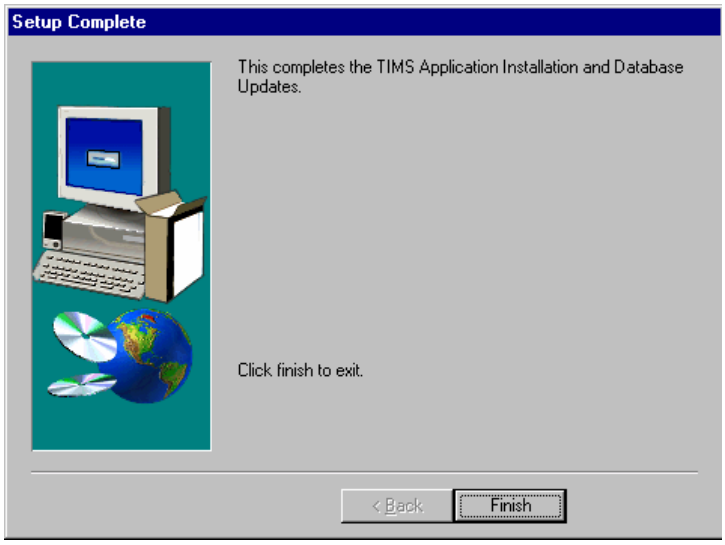
10. The Setup program is now ready to copy all the program files to the workstation hard disk. Most files are installed to C:\TIMS; however, some are copied to the Windows System directory. Click "Next>" to proceed.



11. Next, the Setup program will run the Database Update portion of the installation. This step will display a progress bar and may take several minutes to complete depending on the size of the database. After the Database Update is finished a message will confirm that the database has been successfully upgraded to TIMS 1.20. Click “OK” to proceed.



12. Next, the **Setup Complete** screen will be displayed. Click "Finish" to complete the installation setup.

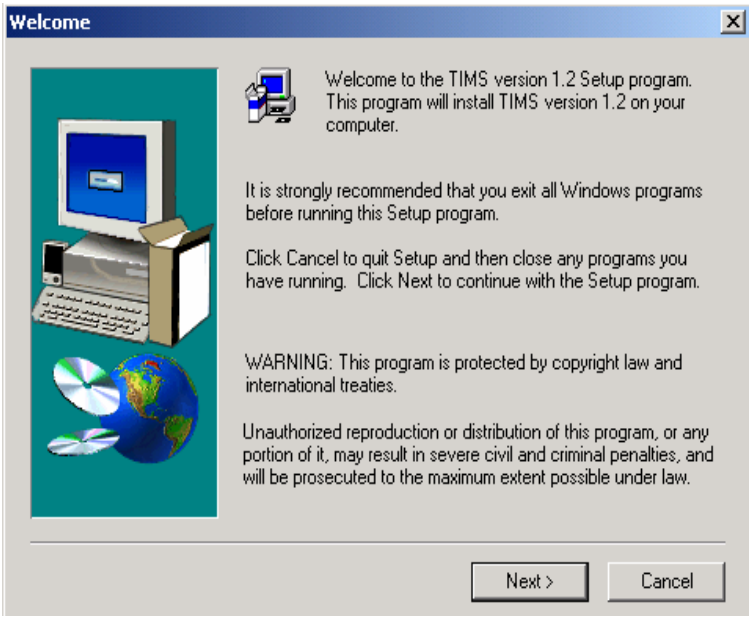


13. TIMS 1.20 is now installed. You must reboot the workstation for the new settings to take effect. Select “Yes, I want to restart my computer now” on the **Restarting Windows** screen and Click “OK” to restart your computer automatically.

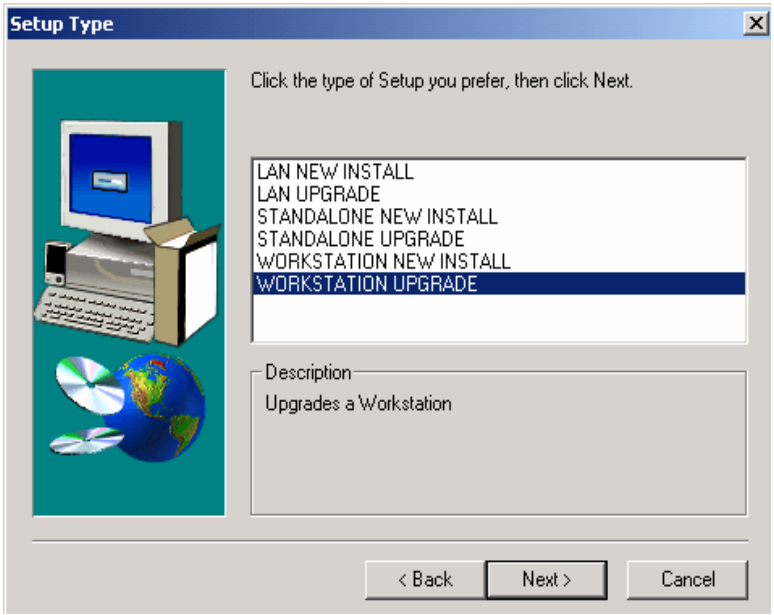
14. Once the workstation is restarted the user may log into TIMS 1.20.
15. Finally, take a new database backup. This is important in case recovery should become necessary since any prior backups will not have had the TIMS 1.20 upgrade performed on them and will not be usable unless that process is repeated on them.

4.2.3.2 Upgrade for each additional workstation

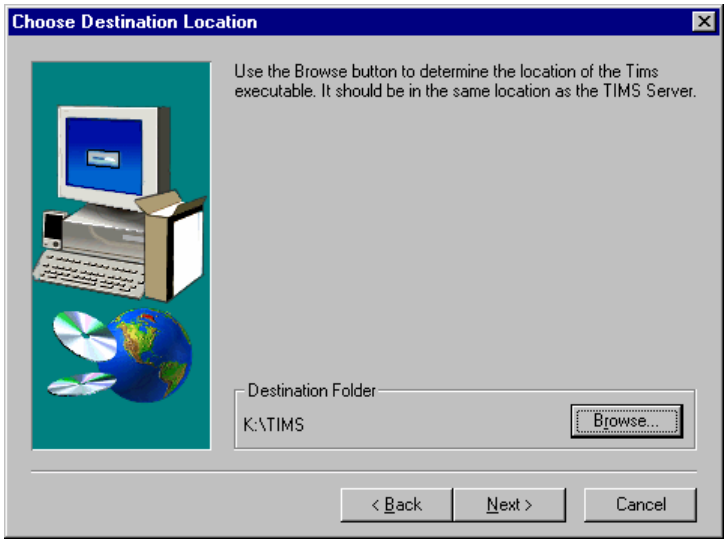
1. Go to Start, Run E:\SETUP.EXE (where E: is the CD-ROM drive letter).
2. The first screen to appear is the **Welcome** screen. If you want to continue, click "Next>". If not, click "Cancel" to exit the program.



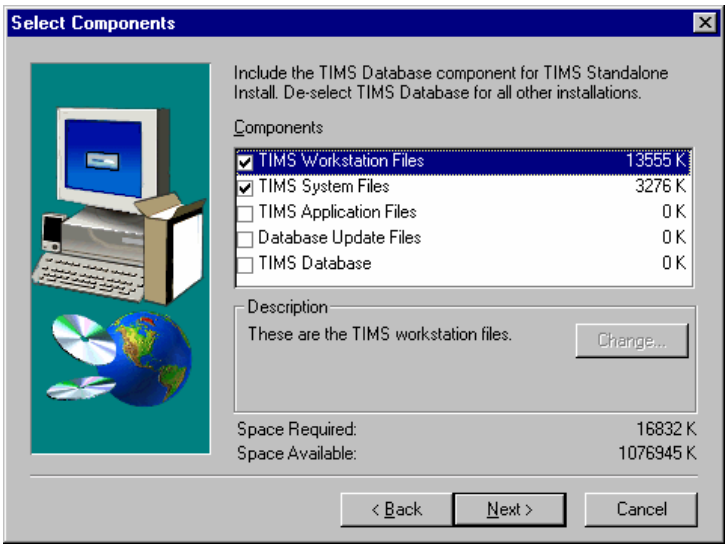
3. On the **Setup Type** screen you must select the type of Setup to install. The setup program will select a default based on whether TIMS is currently installed on the workstation. If the default Setup type is correct, click "Next>" to proceed. If you want to change the Setup type, highlight the one you want then click "Next>".



4. Next is the **Choose Destination Location** screen. Using the "Browse" button, select the application directory. Click "Next>" to proceed. *(The location should be the same location where the application was installed previously on workstation number one).*

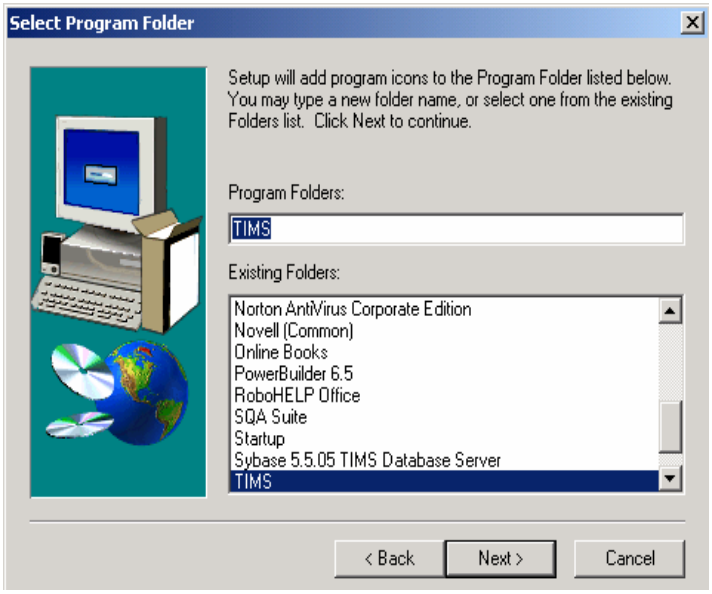


5. Next is the **Select Components** screen. For the additional workstation LAN upgrades, the first two components must be installed. By default, the first four components are already selected – deselect the third and fourth components. Click "Next>" to continue.

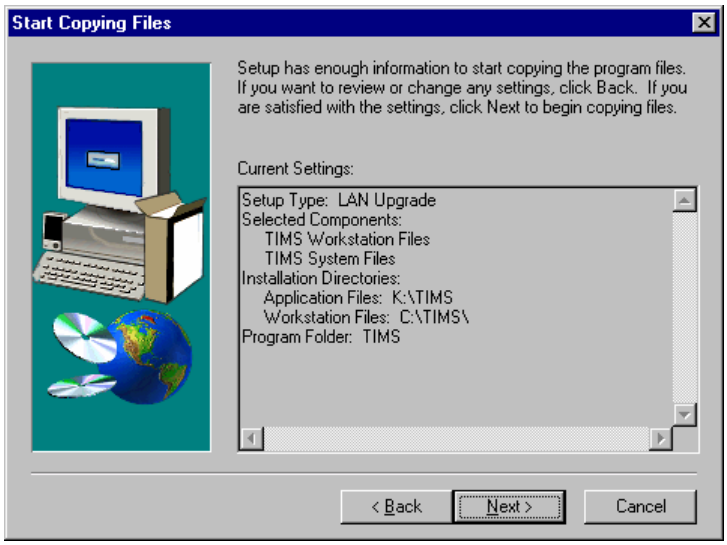


6. The TIMS setup program will create a program folder to contain the shortcuts for TIMS and TIMS Utility. By default, this is named "TIMS" and will be created if it doesn't already exist. To create a folder with a different name, type the new name on the **Select Program Folder** screen or select an existing folder from the list. Click "Next>" to proceed.

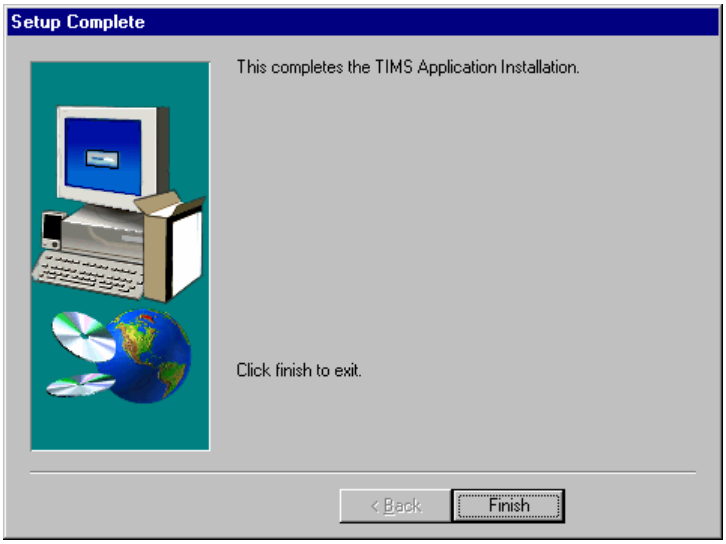
   Note: *You can create a shortcut on the Windows desktop by copying the icons from this folder to the desktop.*



7. The Setup program is now ready to copy all the program files to the workstation hard disk. For a standalone configuration, most files are installed to C:\TIMS. However, some are copied to the Windows System directory. Click "Next>" to proceed.



8. Next, the **Setup Complete** screen will be displayed. Click "Finish" to complete the installation setup.



9. TIMS 1.20 is now installed. You must reboot the workstation for the new settings to take effect. Select “Yes, I want to restart my computer now” on the **Restarting Windows** screen and Click “OK” to restart your computer automatically.

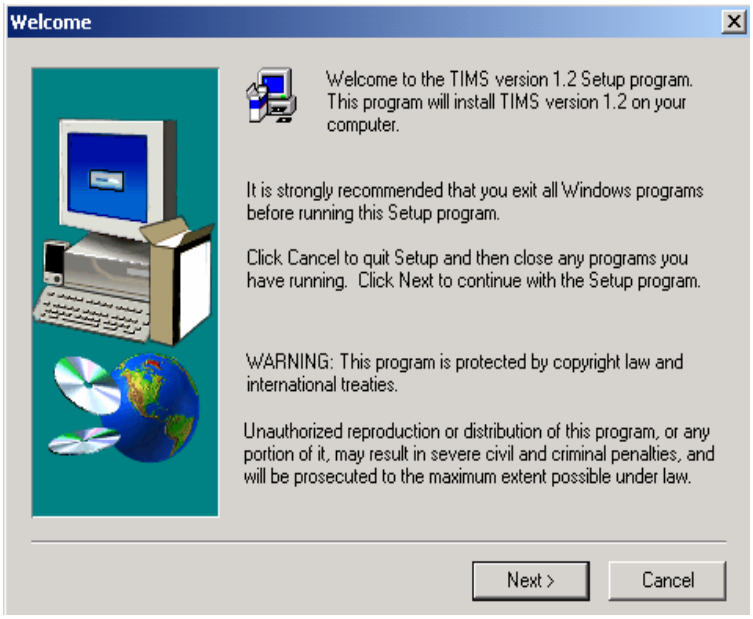
10. Once the workstation is restarted the user may log into TIMS 1.20.

4.2.4 Create a New TIMS LAN Workstation

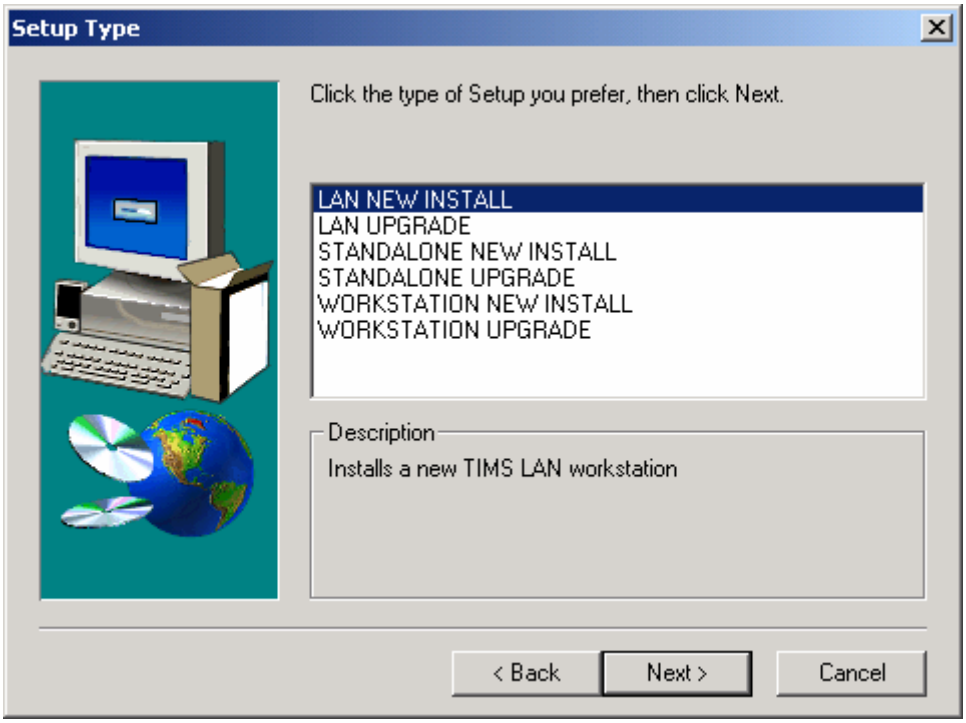
For the first installation of a new LAN workstation, follow the steps in the **One-time installation for the first workstation** section. This will provide the steps to install your database, Sybase engine components and one workstation. Note that the first workstation will require a modem. After completing this process, follow the steps in the **Creating each additional workstation** section to create all additional workstations.

4.2.4.1 One-time installation for the first workstation

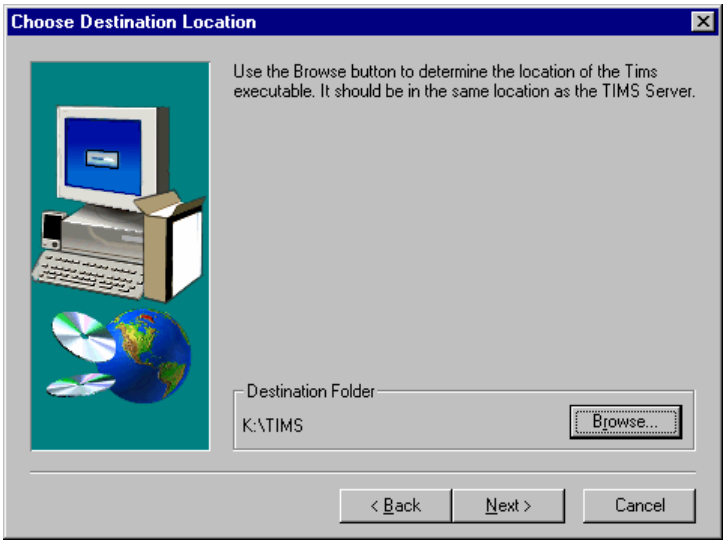
1. Insert the TIMS 1.20 Setup CD into the CD-ROM drive.
2. The TIMS 1.20 Setup program will start automatically. If you need to create the Sybase engine components (v5.5.05), then click “Cancel” to exit the program and follow the steps for creating these components in the **Create a New Sybase Engine (v5.5.05)** section later in this document. When the Sybase installation is complete, go to Start, Run E:\SETUP.EXE (where E: is the CD-ROM drive letter) and continue with the TIMS Setup.
3. The first screen to appear is the **Welcome** screen. If you want to continue, click "Next>". If not, click "Cancel" to exit the program.



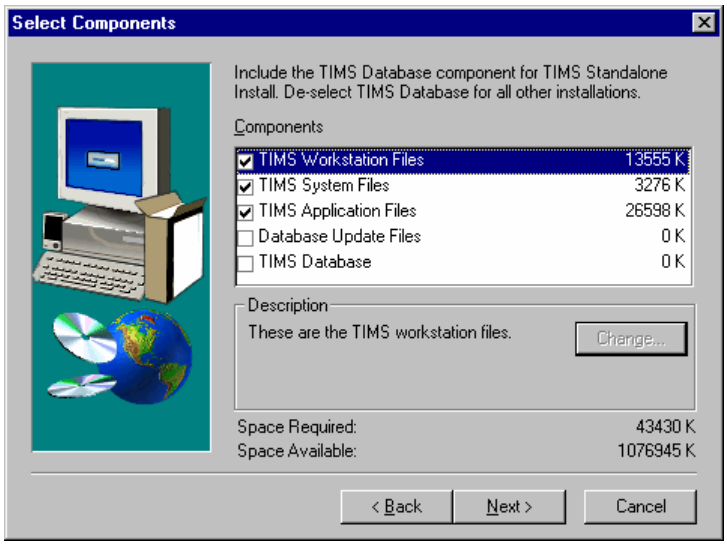
4. Next you must select the type of Setup to install from the **Setup Type** screen. The setup program will select a default based on whether TIMS is currently installed on the workstation. If the default Setup type is correct, click "Next>" to proceed. If you want to change the Setup type, highlight the one you want then click "Next>".



5. Next is the **Choose Destination Location** screen. Using the “Browse” button, select the application directory. Click “Next>” to proceed.

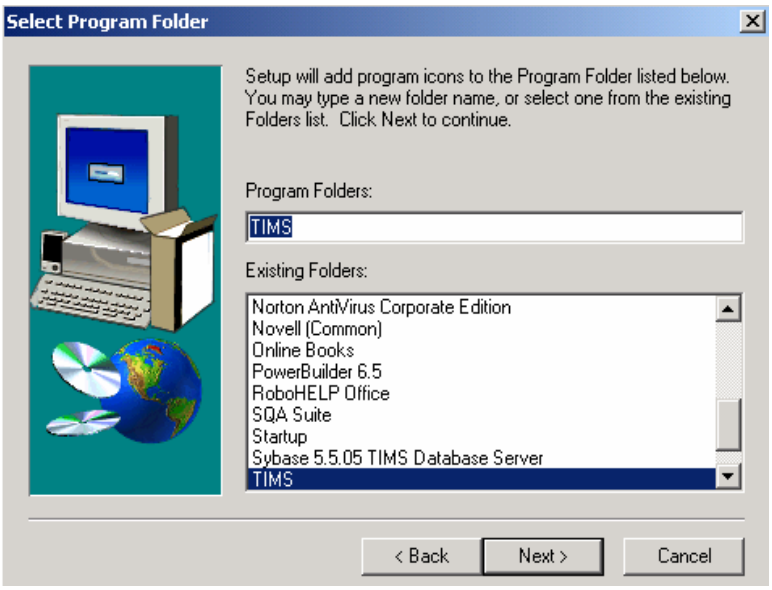


6. Next is the **Select Components** screen. For the first workstation LAN upgrade, the first three components must be installed. By default, these are already selected. Click "Next>" to continue.

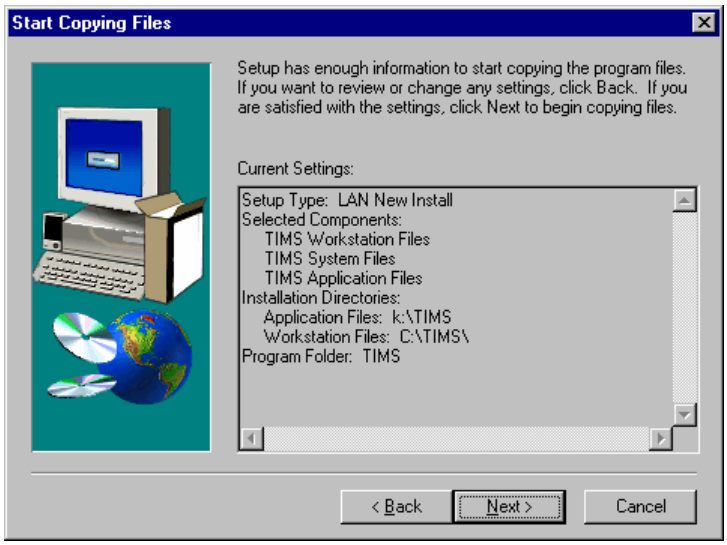


7. The TIMS setup program will create a program folder to contain the shortcuts for TIMS and TIMS Utility. By default, this is named "TIMS" and will be created if it doesn't already exist. To create a folder with a different name, type the new name on the **Select Program Folder** screen or select an existing folder from the list. Click "Next>" to proceed.

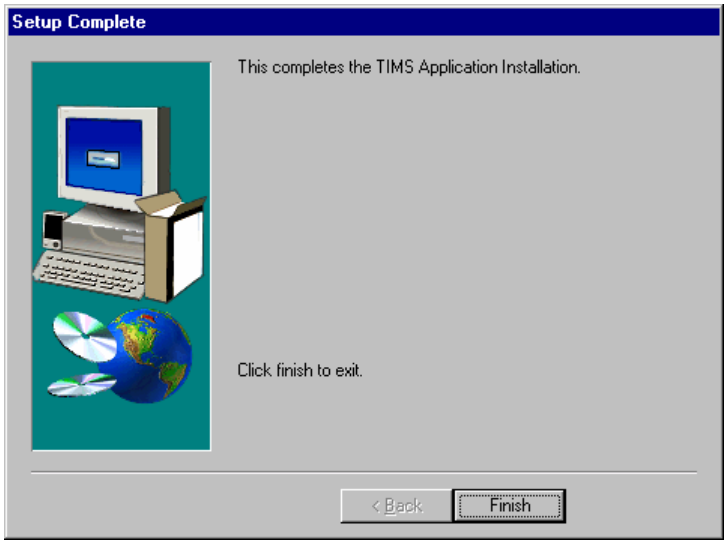
   Note: *You can create a shortcut on the Windows desktop by copying the icons from this folder to the desktop.*



8. The Setup program is now ready to copy all the program files to the workstation hard disk. For a standalone configuration, most files are installed to C:\TIMS. However, some are copied to the Windows System directory. Click "Next>" to proceed.



9. Next, the **Setup Complete** screen will be displayed. Click "Finish" to complete the installation setup.

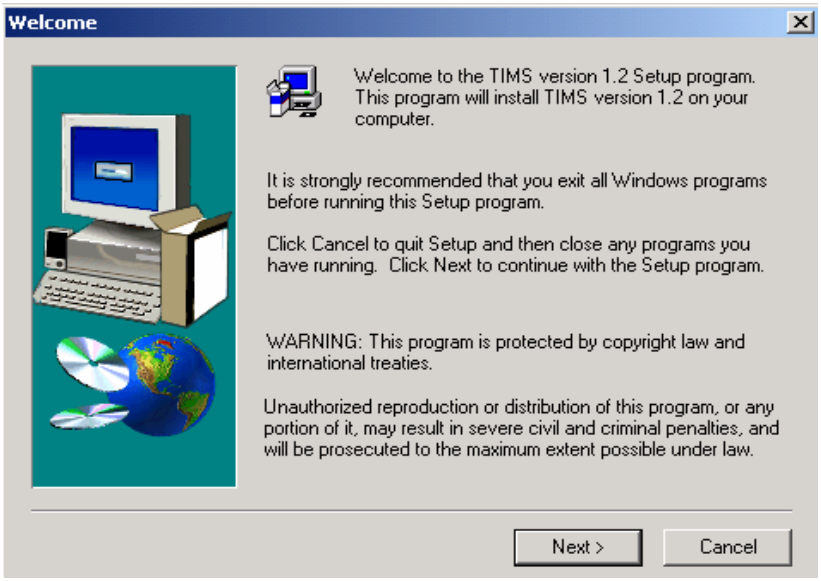


10. TIMS 1.20 is now installed. You must reboot the workstation for the new settings to take effect. Select “Yes, I want to restart my computer now” on the **Restarting Windows** screen and Click “OK” to restart your computer automatically.

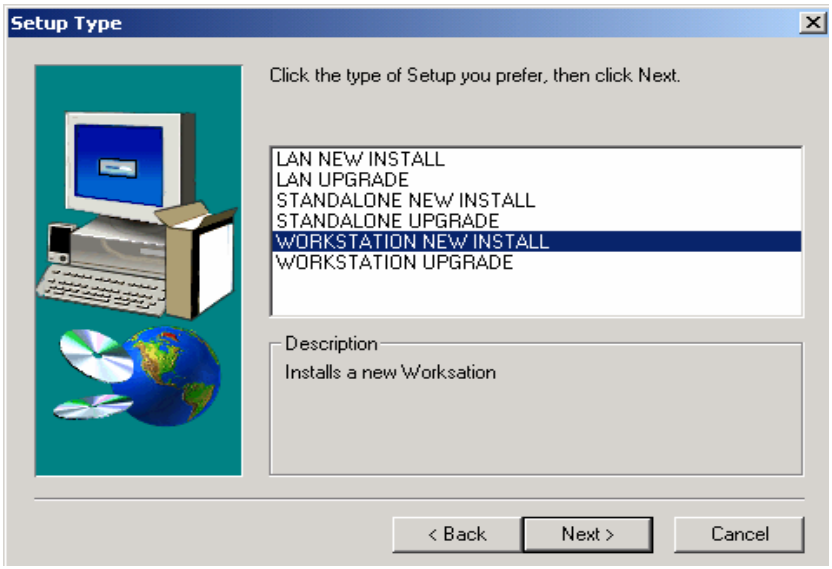
11. Once the workstation is restarted, the user may log into TIMS 1.20. On the initial login, TIMS will require a Spin-off Diskette and Completion of the Registration Process (Call TIMS Helpdesk).

4.2.4.2 Creating each additional workstation

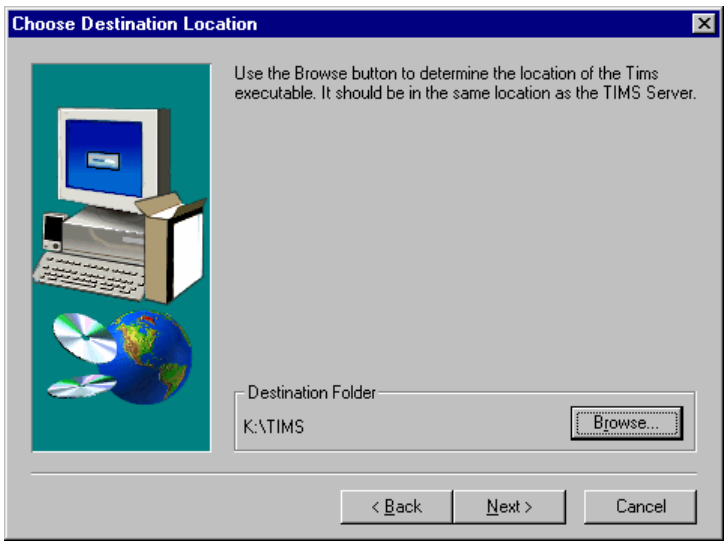
1. Go to Start, Run E:\SETUP.EXE (where E: is the CD-ROM drive letter).
2. The first screen to appear is the **Welcome** screen. If you want to continue, click "Next>". If not, click "Cancel" to exit the program.



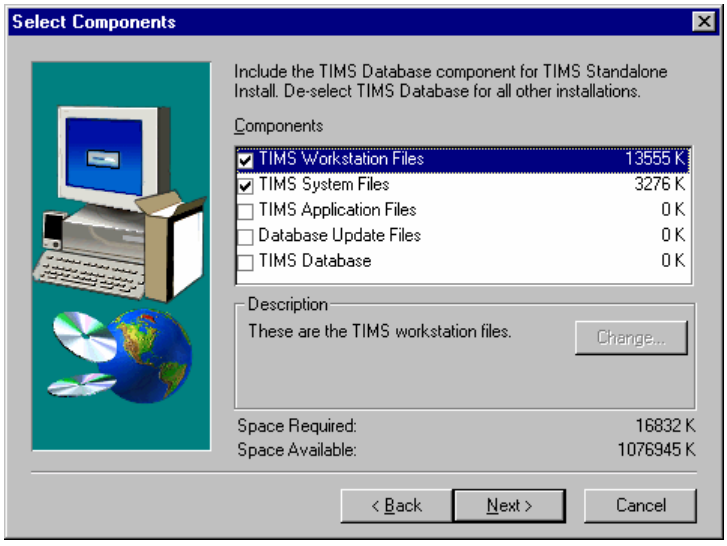
3. Next you must select the type of Setup to install on the **Setup Type** screen. The setup program will select a default based on whether TIMS is currently installed on the workstation. If the default Setup type is correct, click "Next>" to proceed. If you want to change the Setup type, highlight the one you want then click "Next>".



4. Next is the **Choose Destination Location** screen. Using the "Browse" button, select the application directory. Click "Next>" to proceed.

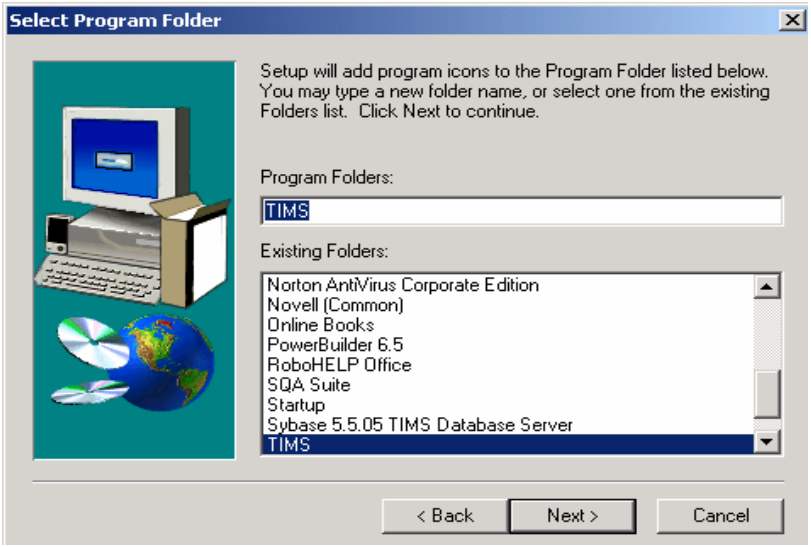


5. Next is the **Select Components** screen. For the additional workstation LAN new installs, the first two components must be installed. By default, the first three components are already selected – deselect the third component. Click "Next>" to continue.

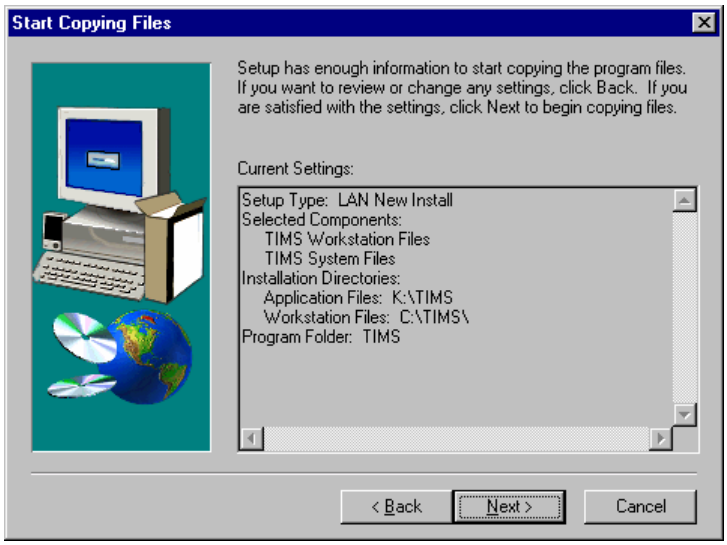


6. The TIMS setup program will create a program folder on the **Select Program Folder** screen to contain the shortcuts for TIMS and TIMS Utility. By default, this is named "TIMS" and will be created if it doesn't already exist. To create a folder with a different name, type the new name on this screen or select an existing folder from the list. Click "Next>" to proceed.

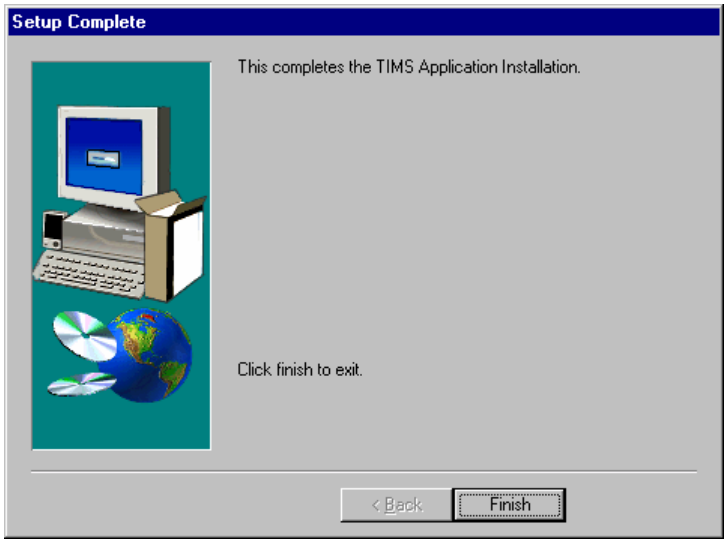
   Note: *You can create a shortcut on the Windows desktop by copying the icons from this folder to the desktop.*



7. The Setup program is now ready to copy all the program files to the workstation hard disk. For a standalone configuration, most files are installed to C:\TIMS. However, some are copied to the Windows System directory. Click "Next>" to proceed.



8. Next, the **Setup Complete** screen will be displayed. Click "Finish" to complete the installation setup.



9. TIMS 1.20 is now installed. You must reboot the workstation for the new settings to take effect. Select “Yes, I want to restart my computer now” on the **Restarting Windows** screen and Click “OK” to restart your computer automatically.

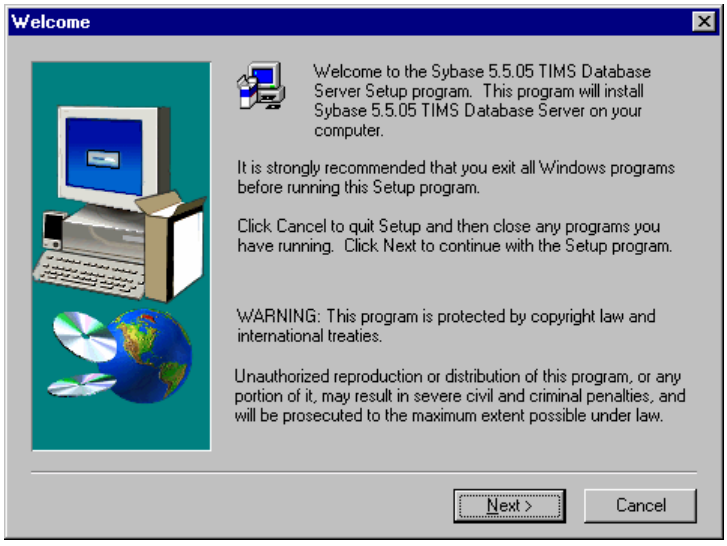
10. Once the workstation is restarted, the user may log into TIMS 1.20.

4.2.5 Upgrade Sybase Engine Components to v5.5.05

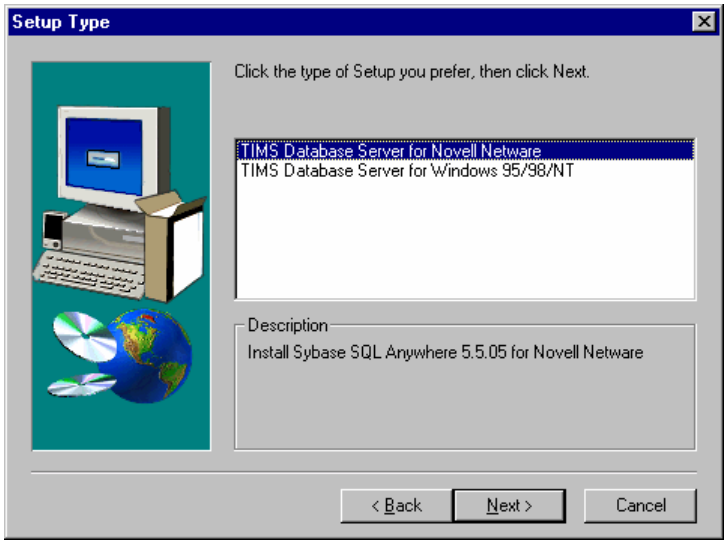
For the upgrade of the Sybase Engine Components to v5.05.05 on a Novell NetWare Server, follow the steps in the **Novell NetWare Server** section. For the upgrade of the Sybase Engine Components to v5.05.05 on a Windows 95, 98, NT or 2000 Server, follow the steps in the **Windows 95 / 98 / NT and 2000 Server** section.

4.2.5.1 Novell NetWare server

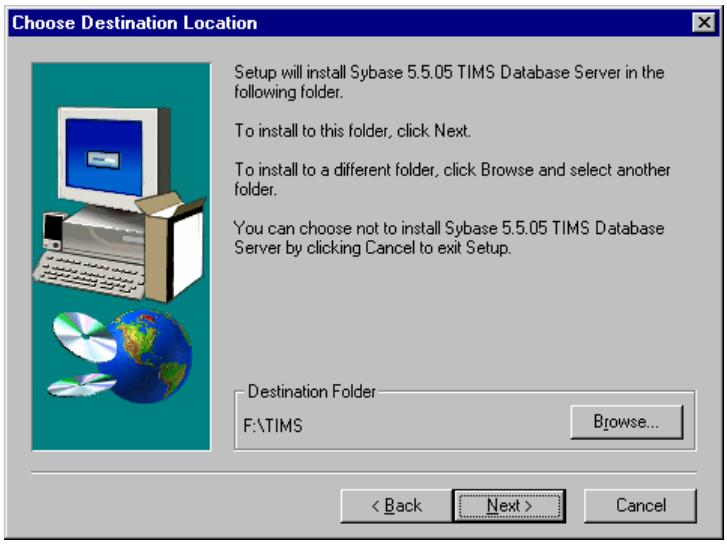
1. Unload the Sybase engine at the NetWare console (using TIMSTOP.NCF).
2. Go to Start, Run E\SYBASE\Disk1\SETUP.EXE (where E: is the CD-ROM drive letter).
3. The first screen to appear is the **Welcome** screen. If you want to continue, click "Next>". If not, click "Cancel" to exit the program.



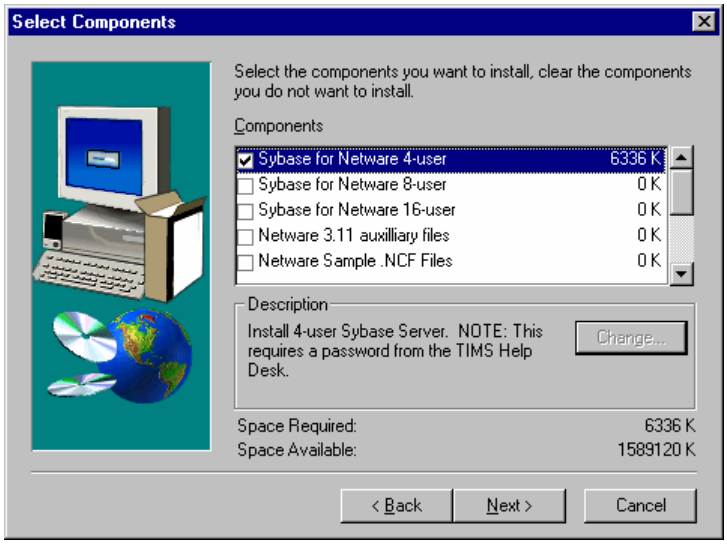
4. Next, you must select the type of setup you want to install on the **Setup Type** screen. Highlight "TIMS Database Server for Novell NetWare" and click "Next>" to proceed.



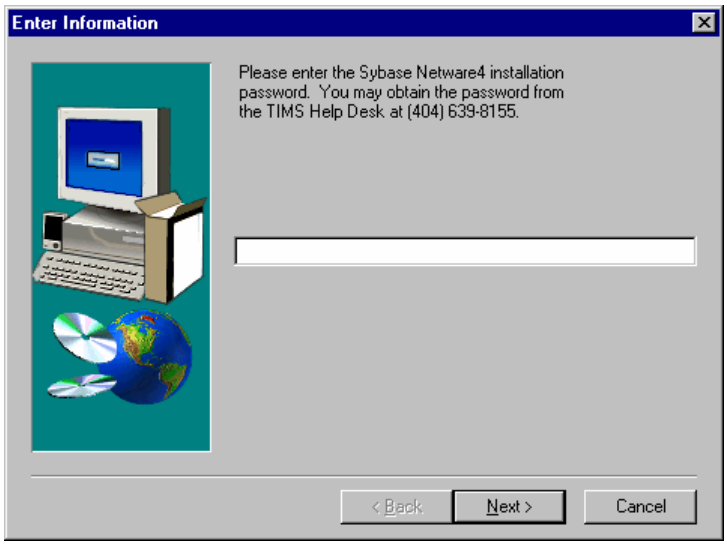
5. Next, you must select the path for the Sybase files. Using the "Browse" button select the Destination Folder from the **Choose Destination Location** screen. Click "Next>" to proceed.



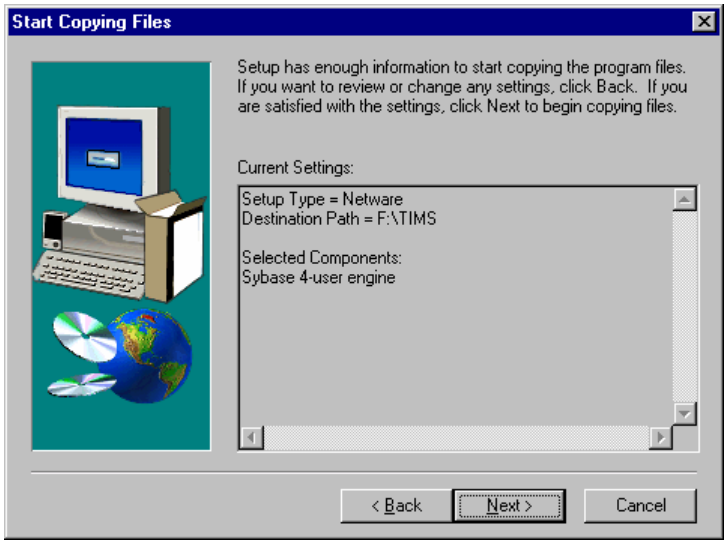
6. Next is the **Select Components** screen. Select the "Sybase for NetWare 4-user", "Sybase for NetWare 8-user" or "Sybase for NetWare 16-user" based upon the license that you need. Note that you will need to obtain a password from the TIMS Helpdesk for the selected license. Click "Next>" to proceed.



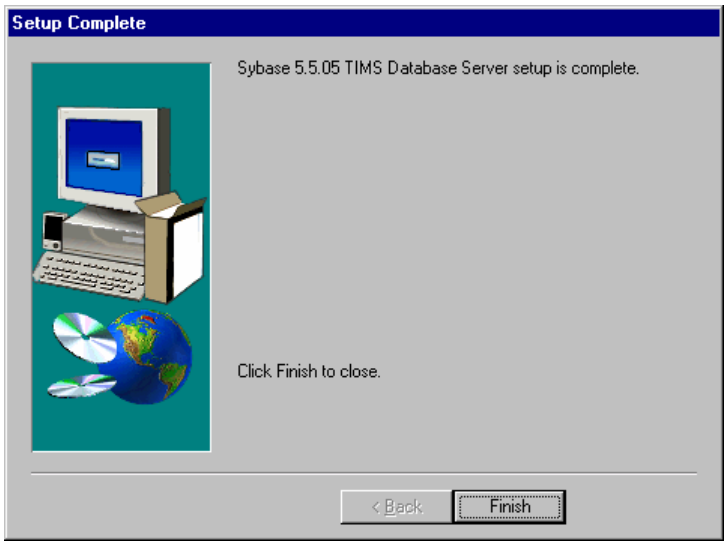
7. Enter the password for the chosen version. Click "Next>" to proceed.



8. The setup program is ready to copy all the program files to the destination folder. Click "Next>" to proceed.



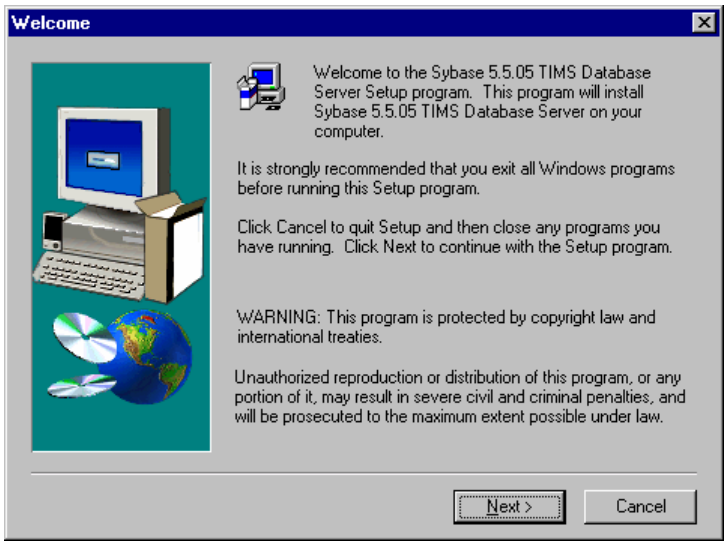
9. The Sybase setup is now complete. Click “Finish” to exit the setup program.



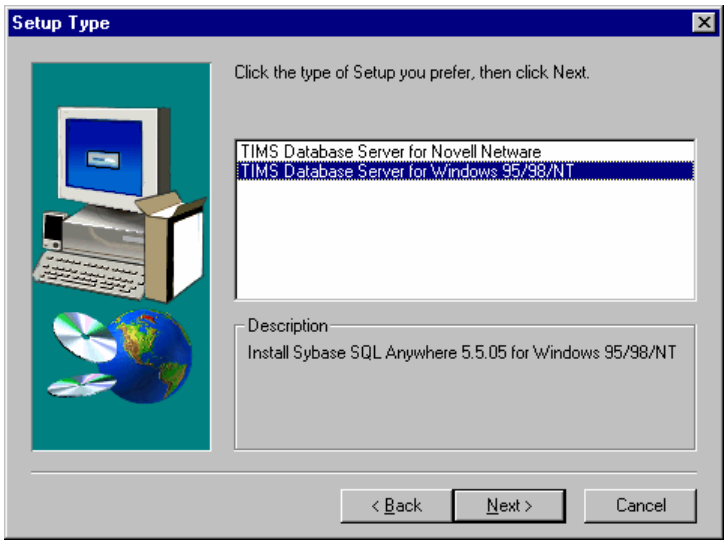
10. Reload the Sybase engine using TIMSTART.NCF.

4.2.5.2 Windows 95 / 98 / NT and 2000 Server

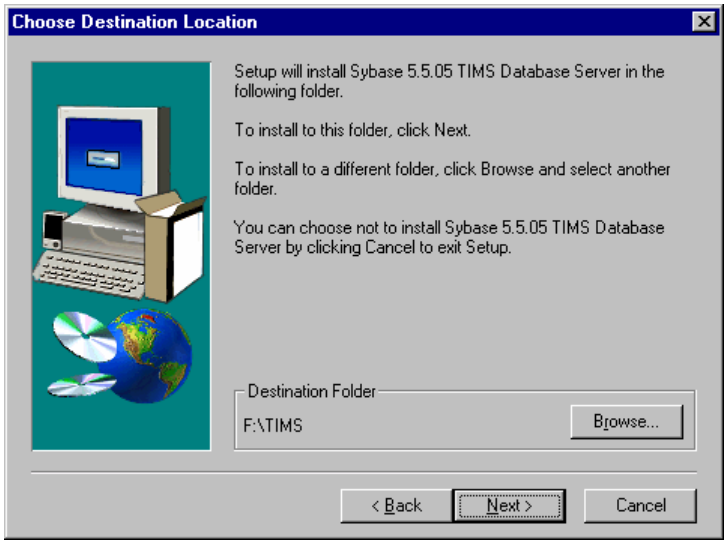
1. Unload the Sybase engine by either closing the window or stopping the service.
2. Go to Start, Run E:\SYBASE\Disk 1\SETUP.EXE (where E: is the CD-ROM drive letter).
3. The first screen to appear is the **Welcome** screen. If you want to continue, click “Next>”. If not, click “Cancel” to exit the program.



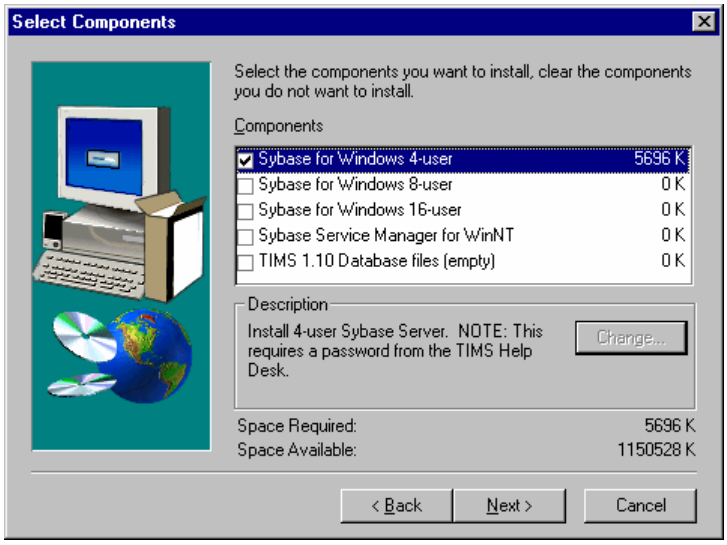
4. Next, you must select the type of setup you want to install from the **Setup Type** screen. Highlight "TIMS Database Server for Windows 95/98/NT" and click "Next>" to proceed.



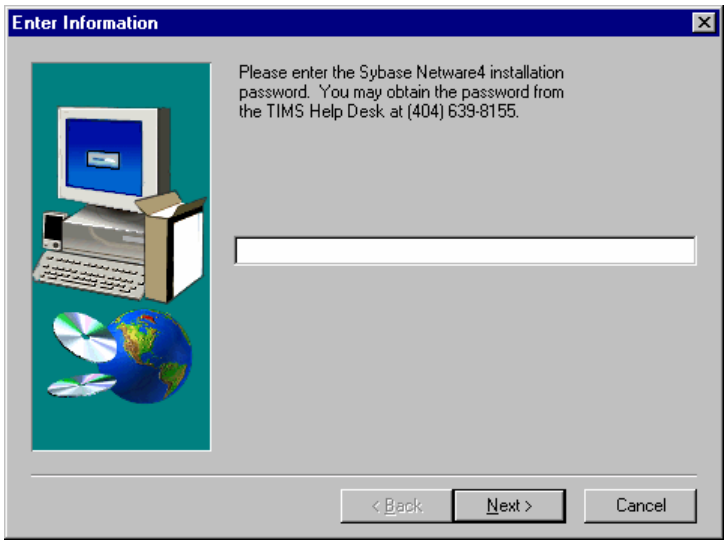
5. Next, you must select the path for the Sybase files. Using the "Browse" button, select the Destination Folder. Click "Next>" to proceed.



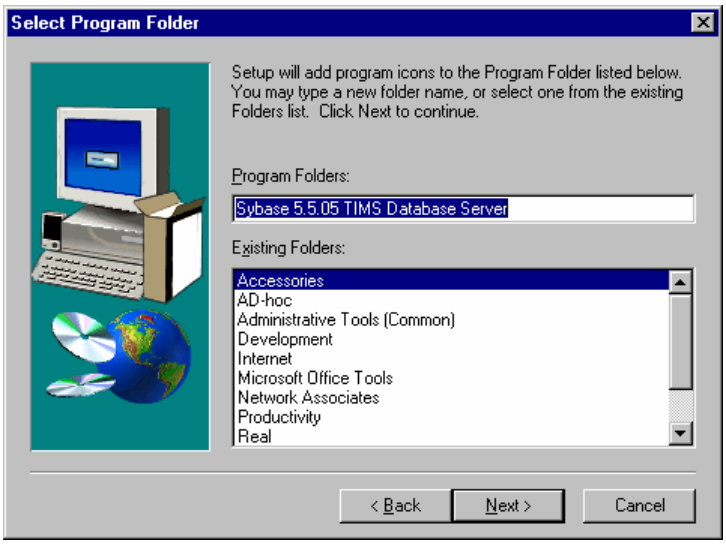
6. Next is the **Select Components** screen. Select the "Sybase for Windows 4-user", "Sybase for Windows 8-user" or "Sybase for Windows 16-user" based upon the license that you need. Note that you will need to obtain a password from the TIMS Helpdesk for the selected license. Click "Next>" to proceed. *(Optionally for Windows NT and 2000 only, check the "Sybase Service Manager for WinNT" box. Note that for Windows 2000 the latest Sybase patch (ntse2817) should be applied to run the Sybase Service Manager under 2000. Please contact the TIMS Helpdesk to obtain the latest Sybase patch.)*



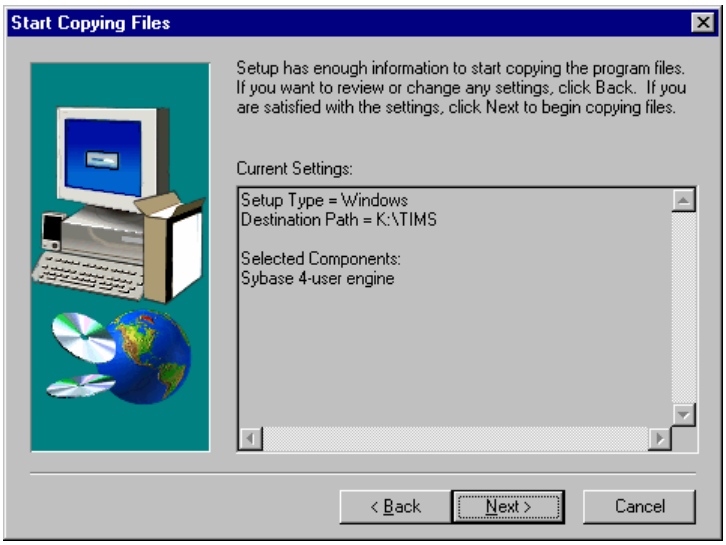
7. Enter the password for the chosen version. Click "Next>" to proceed.



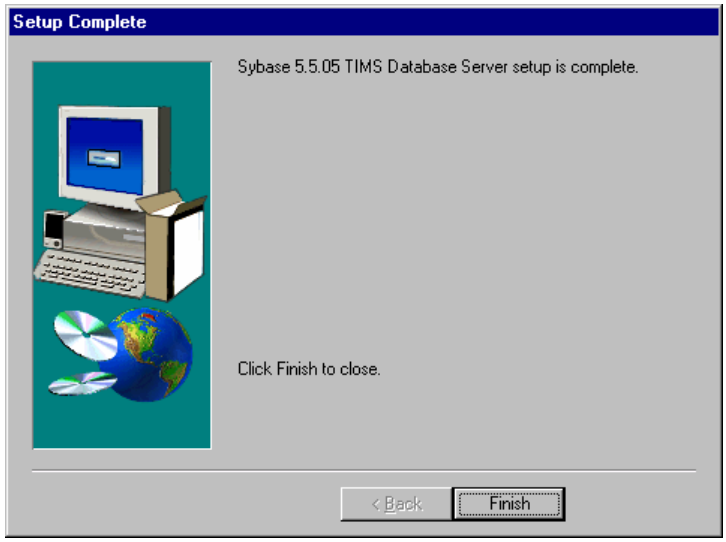
8. The setup program will create a program folder to contain the shortcuts for the TIMS Database. By default, this is named "Sybase 5.5.05 TIMS Database Server" and will be created if it doesn't already exist. To create a folder with a different name, type the new name, or select an existing folder from the list. Click "Next>" to proceed.
   Note: *You can create a shortcut on the Windows desktop by copying the icons from this folder to the desktop.*



9. The setup program is ready to copy all the program files to the destination folder. Click "Next>" to proceed.



10. Next, the **Setup Complete** screen will be displayed. Click "Finish" to complete the installation setup.



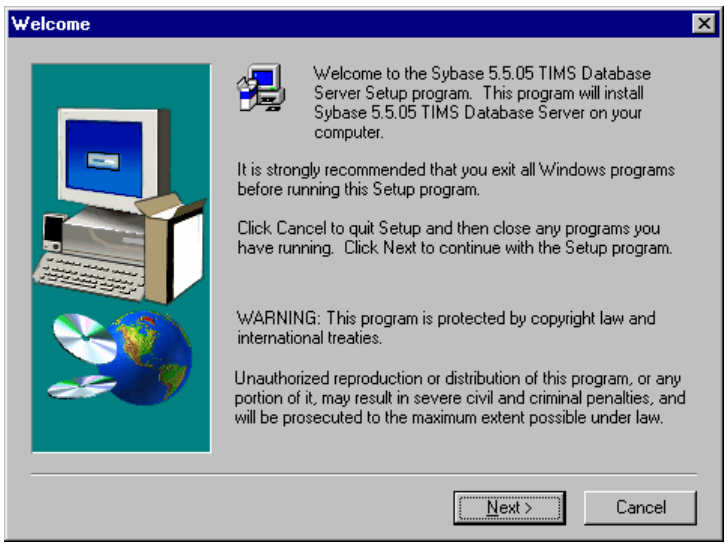
11. Reload the Sybase engine by clicking on the shortcut or selecting (if default used) Sybase 5.5.05 TIMS Database Server / Sybase 5.5.05 TIMS Database Server from the Start / Programs menu or by restarting the service. If you have NT or 2000 and have installed the Sybase Service Manager and you would like to setup the database server to run as a service, refer to **Appendix D. Sybase Service Manager for NT and 2000**.

4.2.6 Create a New Sybase Engine (v5.5.05)

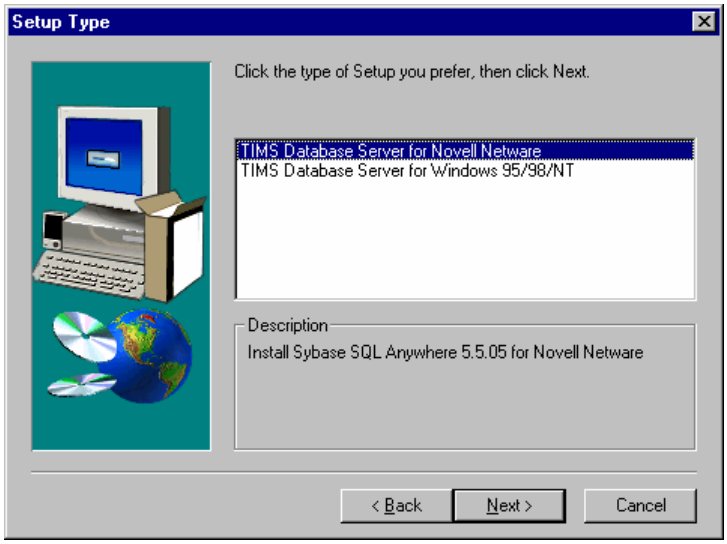
For the creation of the Sybase Engine Components (v5.05.05) and a new TIMS database on a Novell NetWare Server, follow the steps in the **Novell NetWare Server** section. For the upgrade of the Sybase Engine Components (v5.05.05) and a new TIMS database on a Windows 95, 98, NT or 2000 Server, follow the steps in the **Windows 95 / 98/ NT and 2000 Server** section.

4.2.6.1 Novell NetWare server

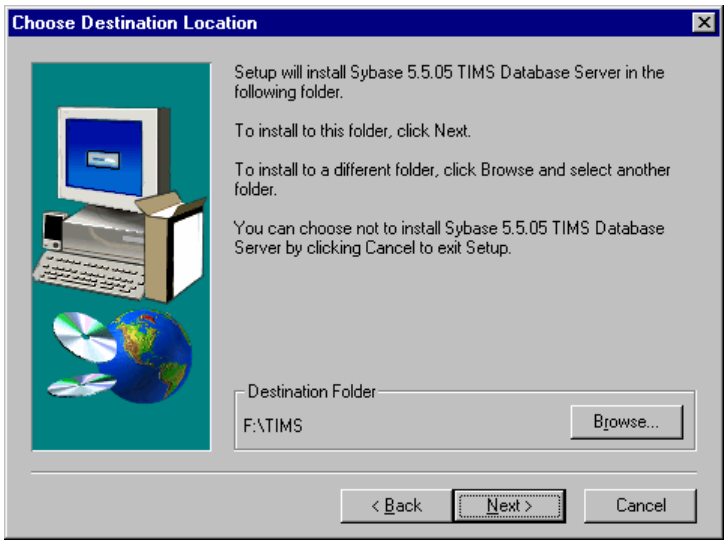
1. Go to Start, Run E:\SYBASE\Disk1\SETUP.EXE (where E: is the CD-ROM drive letter).
2. The first screen to appear is the **Welcome** screen. If you want to continue, click "Next>". If not, click "Cancel" to exit the program.



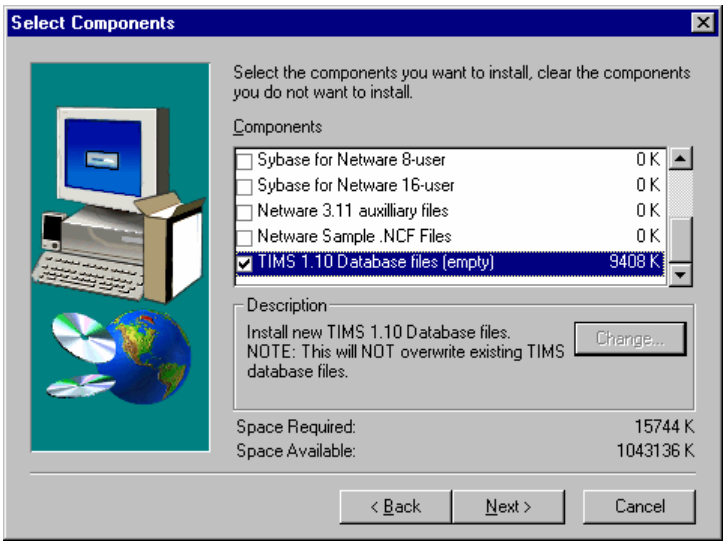
3. Next, you must select the type of setup you want to install from the **Setup Type** screen. Highlight "TIMS Database Server for Novell NetWare" and click "Next>" to proceed.


Setup Type
Click the type of Setup you prefer, then click Next.
TIMS Database Server for Novell Netware
TIMS Database Server for Windows 95/98/NT
Description
Install Sybase SQL Anywhere 5.5.05 for Novell Netware
< Back
Next >
Cancel

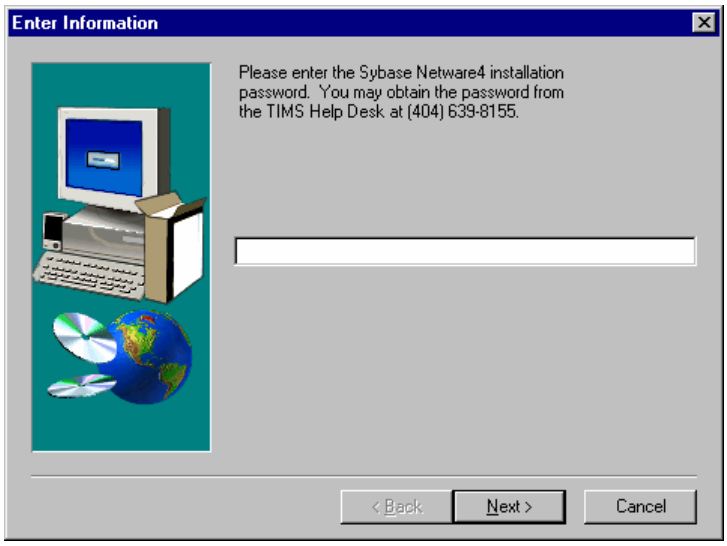
4. Next, you must select the path for the Sybase files from the **Choose Destination Location** screen. Using the "Browse" button, select the Destination Folder. Click "Next>" to proceed.



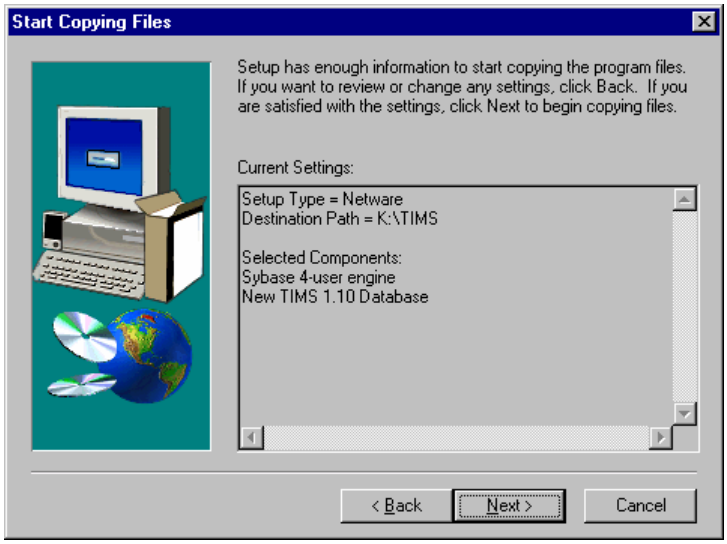
5. Next is the **Select Components** screen. Select the "Sybase for NetWare 4-user", "Sybase for NetWare 8-user" or "Sybase for NetWare 16-user" based upon the license that you need. Note that you will need to obtain a password from the TIMS Helpdesk for the selected license. Then select the "TIMS 1.20 Database files (empty)" and click "Next>" to proceed.



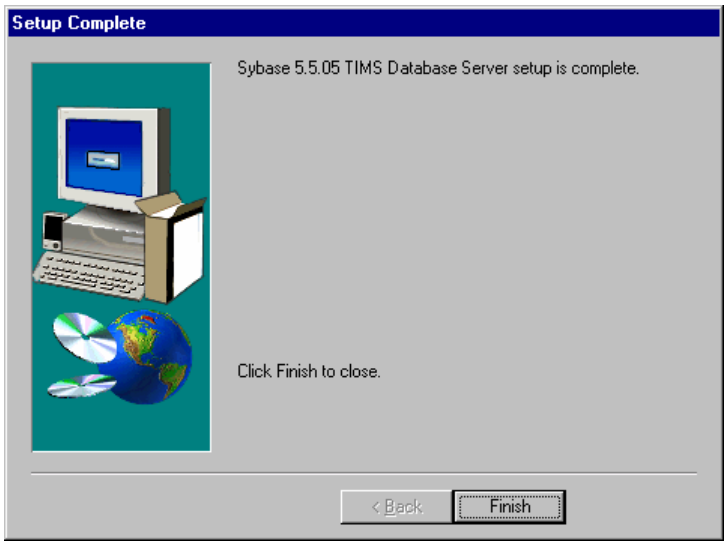
6. Enter the password for the chosen version. Click "Next>" to proceed.



7. The setup program is ready to copy all the program files to the destination folder. Click "Next>" to proceed.



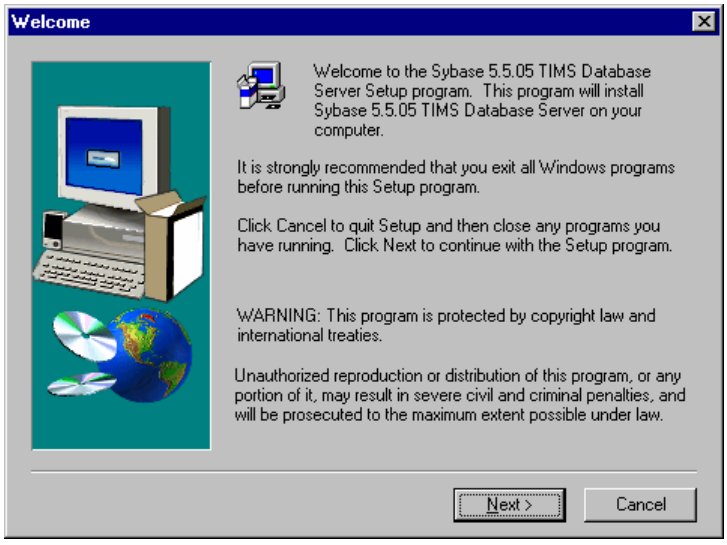
8. The Sybase setup is now complete. Click “Finish” to exit the setup program.



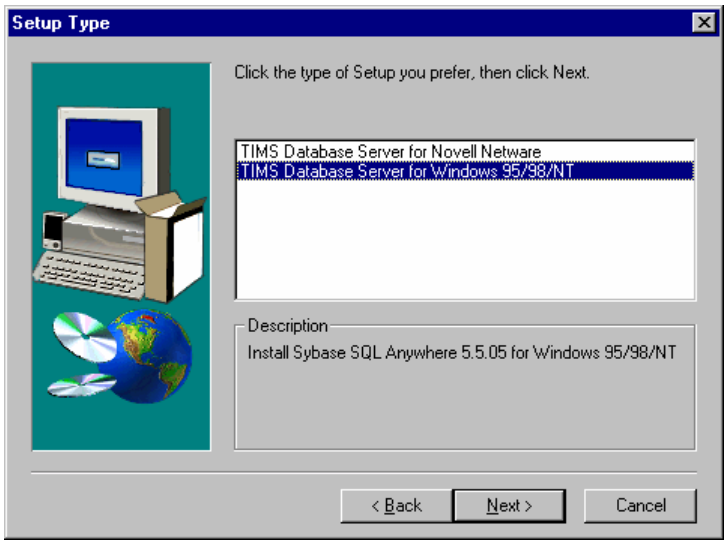
9. Load the Sybase engine using TIMSTART.NCF.

4.2.6.2 Windows 95 / 98 / NT and 2000 Server

1. Go to Start, Run E:\SYBASE\Disk1\SETUP.EXE (where E: is the CD-ROM drive letter).
2. The first screen to appear is the **Welcome** screen. If you want to continue, click “Next>”. If not, click “Cancel” to exit the program.

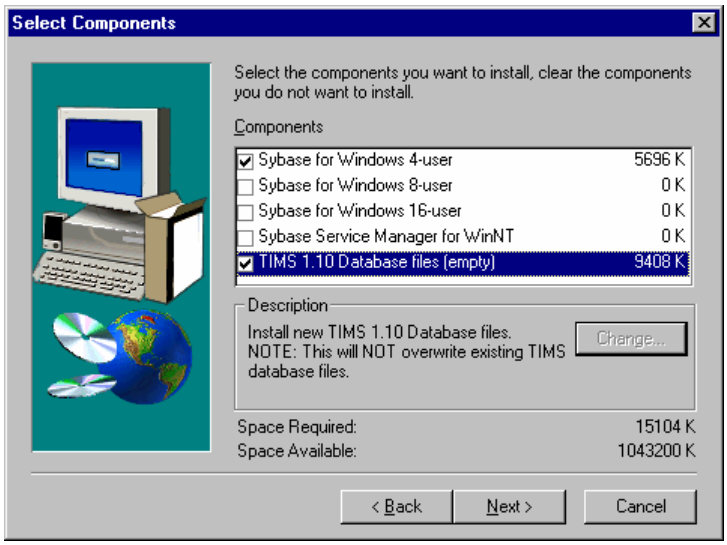


3. Next you must select the type of setup you want to install from the **Setup Type** screen. Highlight "TIMS Database Server for Windows 95/98/NT" and click "Next>" to proceed.

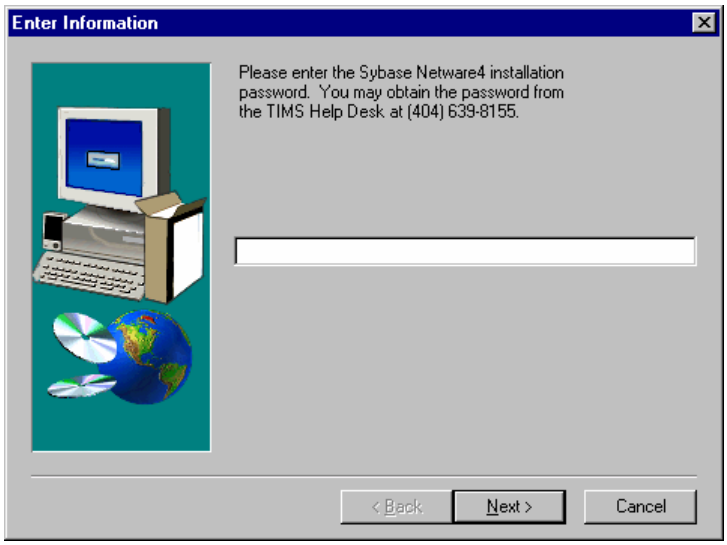


4. Next you must select the path for the Sybase files. On the **Choose Destination Location** screen, use the "Browse" button to select the Destination Folder. Click "Next>" to proceed.

5. Next is the **Select Components** screen. Select the "Sybase for Windows 4-user", "Sybase for Windows 8-user" or "Sybase for Windows 16-user" based upon the license that you need. Note that you will need to obtain a password from the TIMS Helpdesk for the selected license. The select "TIMS 1.10 Database files (empty)" (this selection also applies for TIMS 1.20) and click "Next>" to proceed.

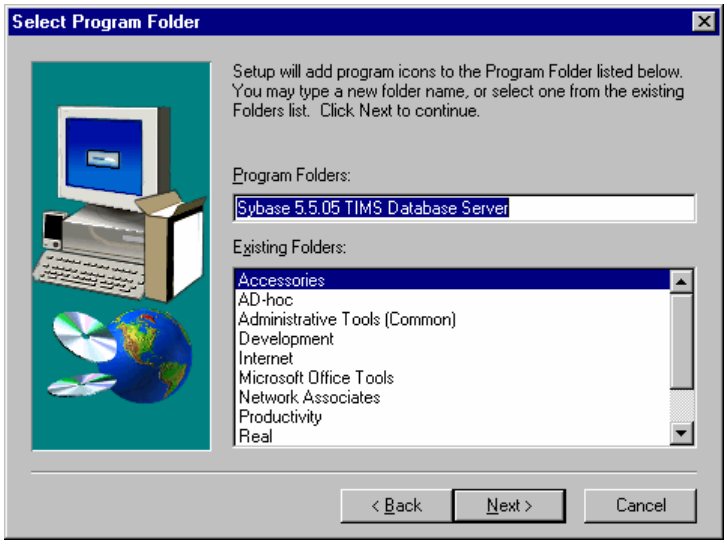


6. Enter the password for the chosen version. Click "Next>" to proceed.

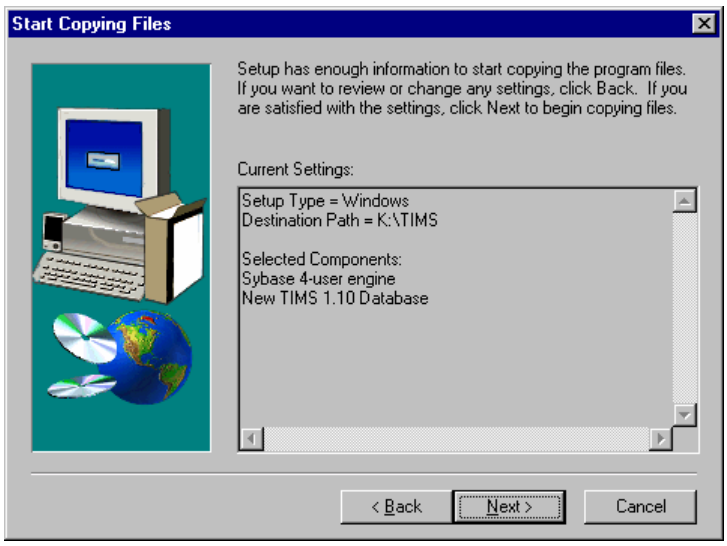


7. The setup program will create a program folder to contain the shortcuts for the TIMS Database. By default, this is named "Sybase 5.5.05 TIMS Database Server" and will be created if it doesn't already exist. To create a folder with a different name, type the new name, or select an existing folder from the list. Click "Next>" to proceed.

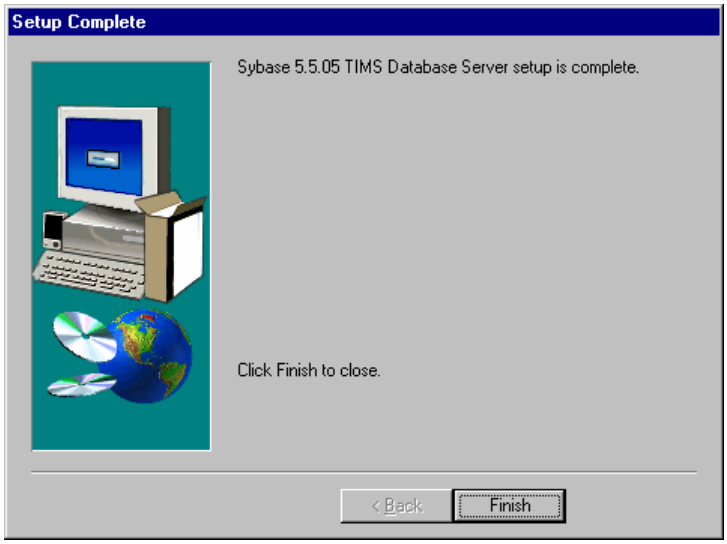
   Note: *You can create a shortcut on the Windows desktop by copying the icons from this folder to the desktop.*



8. The setup program is ready to copy all the program files to the destination folder. Click "Next>" to proceed.



9. Next, the **Setup Complete** screen will be displayed. Click "Finish" to complete the installation setup.



10. Optional – Setup a service by running the Sybase Service Manager. If you have NT or 2000 and have installed the Sybase Service Manager and you would like to setup the database server to run as a service, refer to **Appendix D. Sybase Service Manager for NT and 2000**.
11. Load the Sybase engine by clicking on the shortcut or selecting (if default used) Sybase 5.5.05 TIMS Database Server / Sybase 5.5.05 TIMS Database Server from the Start / Programs menu or by starting the service.

Appendix A. List of Files by Setup Component

A.1. TIMS Application Setup

Application files – installed into C:\TIMS (Standalone) or designated application folder (LAN)			
Bact.pbd	Forms.pbd	Progoper.pbd	Survtran.pbd
Bkuputil.pbd	Fup1.pbd	Query.pbd	System.pbd
Client.pbd	Fup2.pbd	Report.pbd	Tests.pbd
Common.pbd	Mailbox.pbd	Rvct.pbd	Tims.exe
Contact.pbd	Menu.pbd	Rvct2.pbd	Tims.pbd
Dispose.pbd	Netsstra.pbd	Schedule.pbd	Timsutil.exe
Drugpick.pbd	Pmrpt.pbd	Security.pbd	Transmit.pbd
Drugplan.pbd	Profile.pbd	Surv2rpt.pbd	Utils.pbd
Export.pbd		Surv3rpt.pbd	Virtual.pbd
Focus.pbd		Survrpt.pbd	
Help Files – installed into C:\TIMS (Standalone) or designated application folder (LAN)			
Client.hlp	Flddlpr.hlp	Fldsys.hlp	Surv.hlp
Dailperf.HLP	Fldprev.hlp	Patmgt.hlp	System.hlp
Exmpdemo.hlp	Fldptm.hlp	Referenc.hlp	Techelp.hlp
Fldcli.hlp	Fldsurv.hlp	Reports.hlp	Tims.hlp

Sybase files – installed into C:\TIMS			
Dbbackup.exe	Dbinfo.exe	Dbunload.exe	Servnt.hlp
Dbclient.exe	Dbinit.exe	Dbvalid.exe	Wl50ent.dll
Dbeng50.exe	Dbl50t.dll	Dbwatch.exe	Wod50t.dll
Dbeng50w.hlp	Dbstop.exe	Isql.exe	Wtr50t.dll
Dberase.exe	Dbtl50t.dll	Rebuild.bat	

Workstation files – installed into C:\TIMS			
Direc32.dll	Funcky32.dll	Pblab60.ini	Pbvm60.dll
Dunzip32.dll	Modem.lst	Pbodb60.dll	Saxcom32.dll
Dz_ez32.dll	Pbdwe60.dll	Pbodb60.ini	Saxxfr32.dll
Dzip32.dll	Pbdwo60.dll	Pbrtc60.dll	Template.db
Dzpipe32.dll	Pbfnt60.ini	Pbtra60.dll	

System files – installed into Windows System folder			
Ds16gt.dll	Msvcrt40.dll	Odbccr32.dll	Odbcjt32.dll
Ds32gt.dll	Odbc16gt.dll	Odbcinst.cnt	Odbcjtnw.cnt
Msjet35.dll	Odbc32.dll	Odbcinst.hlp	Odbcjtnw.hlp
Msjint35.dll	Odbc32gt.dll	Odbcint.dll	Odbctl32.dll
Msjter35.dll	Odbcad32.exe	Odbcjet.cnt	Odbctrac.dll
Msvcirt.dll	Odbccp32.dll	Odbcjet.hlp	Vbajet32.dll
Msvcrt.dll	Odbccp32.dll	Odbcji32.dll	Vbar332.dll

Database files – installed into C:\TIMS (Standalone only)
Tims.db
Tims.log

A.2. Sybase SQL Anywhere v5.5.05 Setup

1. Sybase for Novell NetWare – All files installed into selected destination folder.

Engine		
Clib.nlm	Dbsrv50.nlm	Servnlm.hlp
Dbclient.nlm	Directfs.nlm	Servnlmw.hlp
Dbextf50.nlm	Isql.hlp	Wl50en.res
Dbserver.nlm	Isql.nlm	Wsqlnlm.lic

Ncf files
Timsstop.ncf
Timstart.ncf

Database files
Tims.db
Tims.log

2. Sybase for Windows 95/98/NT – All files installed into selected destination folder.

Engine		
Dbclient.exe	Dbsvmn50.exe	Wl50ent.dll
Dbeng50w.hlp	Dbtl50t.dll	Wsqlnts.lic□
Dbl50t.dll	Isql.exe	
Dbsrv50.exe	Servnt.hlp	

Database files
Tims.db
Tims.log

Appendix B. Sybase Server Load Options

The database server can be started with a number of database files or no database files. Command-line switches specified before any databases apply to the engine and all databases. Switches specified after a particular database-file apply only to that database. If a database-file is specified without a file extension, SQL Anywhere first looks for database file with extension WRT (a write file), followed by database-file with extension DB.

Basic Syntax: dbsrv50 [engine-switches] [database-file [database-switches], ...]

B.1. Novell NetWare (DBSRV50.NLM)

TIMSTART.NCF Sample
load dbsrv50.nlm –ti480 –gn8 –c8M -x ipx -n tims sys:apps\tims\tims.db -n tims

B.2. Windows 95 / 98 / NT and 2000 (DBSRV50.EXE)

Windows Sample
dbsrv50.exe –ti480 –gn8 –c8M -x tcpip -n tims g:\apps\tims\tims.db -n tims

B.3. Switch Options

Server Switch Options (appears before database filename)	
Switch	**Description**
@*filename*	Read in switches from configuration file
@*envvar*	Read in switches from environment variable
-b	Run in bulk operations mode
-c *cache-size*	Set maximum cache size
-d	Disable asynchronous I/O (OS/2, Windows NT, Netware only)
-e	Enable packet encryption
-ga	Automatically shut down after last database closed
-gb *level*	Set database process priority class to level
-gc *num*	Set checkpoint timeout period
-gd *level*	Set database starting permission
-ge *size*	Sets the stack size for threads that run external functions
-gf	Disable firing of triggers
-gk *level*	Set permission for stopping the server using DBSTOP
-gn *num*	Set number of threads
-gp *size*	Set maximum page size
-gr *num*	Set maximum recovery time
-gs *size*	Set thread stack size
-gw *num*	Set the interval (in milliseconds) for background processing
-gx	Disable dual threading
-l *password*	(lower case L) Lock the keyboard with specified password
-m	Truncate transaction log after checkpoint, for all databases
-n *name*	Name the database server
-o *filename*	Output messages to file
-og	Load the Open Server Gateway (OSG) with default settings
-ogc *version*	Load the OSG with release 5.5.01 data type mapping compatibility
-ogd *database-name*	Load the OSG, making database-name the name of the database used for OSG connections
-ogo *log_file*	Load the OSG, outputting OSG messages to log_file

Server Switch Options (appears before database filename)	
Switch	**Description**
-ogp	Load the OSG, run in non-preemptive mode
-ogs *servername*	Load the OSG using servername for the name of the OSG
-ogt	Load the OSG and truncate the log file
-ogv	Load the OSG, operate in verbose operation (extended messages)
-ogw	Load the OSG, react to Warnings as Errors
-p *packet size*	Set maximum network packet size
-q	Quiet mode – suppress output
-r	Disable multiple-row fetching
-ss n	-ss n Enable the screen saver after n minutes. Character-mode displays only (NetWare).
-ta *sec*	-ta sec Scan time for terminated applications - default 30 seconds
-ti *min*	Client idle time before shutdown - default 240 minutes
-tl *sec*	Default liveness timeout for clients in seconds - default is 120 seconds
-tq *time*	Set quitting time
-tr *sec*	Active request termination if no retries - default 60 seconds
-u	Use buffered disk I/O (Windows 95 and Windows NT only)
-v	Log old values of all columns on UPDATE or DELETE for all databases
-x *list*	Comma separated list of communication links to provide (IPX, TCPIP, NetBIOS, NetDG, NamedPipes, Windows)
-y	Run as a Windows 95 service
-Z	Provide diagnostic information on Communication links

Database Switch Options (appears after database filename)	
Switch	**Description**
-m	Truncate transaction log after checkpoint
-n *name*	Name the database
-v	Log old values of all columns on UPDATE or DELETE

Appendix C. Sybase Client Load Options

C.1. ODBC setup

To configure the ODBC connection for the TIMS database, run ODBC setup by selecting Start, Settings, Control Panel, then ODBC 32 Data Sources or by selecting Start, Run "c:\windows\system\odbcad32.exe". Select System DSN tab, TIMS LAN Database then Configure button. Modify settings as necessary.

C.2. DBCLIENT.EXE

The SQL Anywhere Client, DBCLIENT.EXE, enables client applications to communicate with the network database server

Basic Syntax: DBCLIENT [switches] server-name

Switch Options	
Switch	**Description**
-b *max-packets*	Set the maximum number of packets for multi-row fetches
-c	Purge previous connections
-e	Encrypt all network packets
-ga	Automatically shut down after last database closed
-o *filename*	Output messages to file
-p *packet size*	Set maximum network packet size
-q	Quiet mode – suppress output
-r	Disable multiple-row fetching
-s *buffer space*	Memory for buffers in K
-ta *sec*	Scan time for terminated applications – default 30 seconds
-tl *seconds*	Client liveness timeout in seconds – default is server setting which defaults to 120 seconds
-ts t1 [,t2]	Client min [and max] retry time in 100ths of a second
-x *list*	Comma separated list of communication links to run (IPX, TCPIP, NetBIOS, NetDG, NamedPipes, Windows)
-y	Start with no server connection
-Z	Provide diagnostic information on Communication links

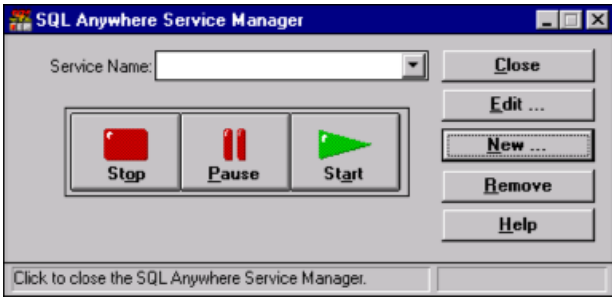
Appendix D. Sybase Service Manager for Windows NT and 2000

The TIMS SQL Anywhere database server can be run as a windows service. This enables the Administrator to run the database server without a login session.

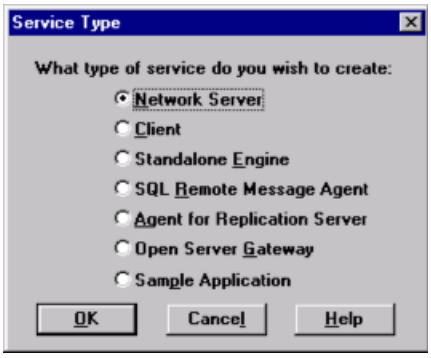
By installing the TIMS database server as a service, the administrator need not keep a login session open. Since the service can be tied to a special system account called 'Local System', the server program will start up before the Administrator logs in (If the service 'startup type' is made automatic). The service can also be tied to a particular user account.

D.1. Using the Sybase SQL Anywhere Service Manager

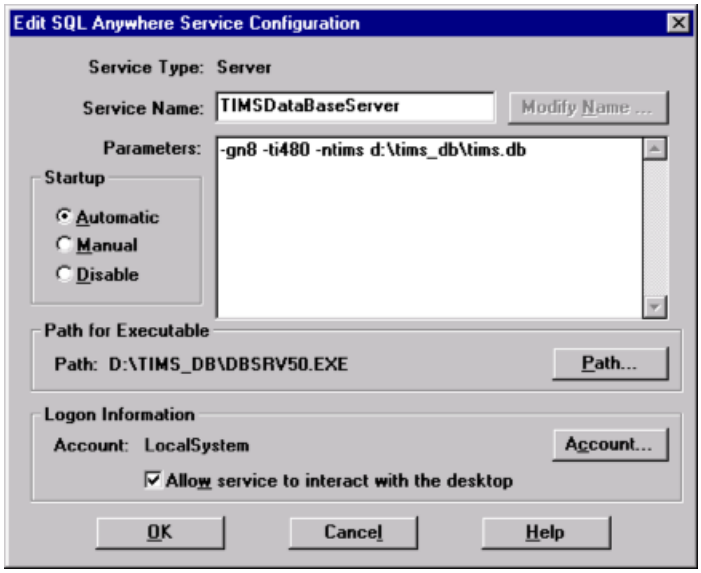
1. Start the dbsvmn50.exe or (if default used when installed) select Sybase 5.5.05 TIMS Database Server / Sybase Service Manager for NT from the Start / Programs menu.



2. Click on the 'New…' button to create a new service.



3. Select the 'Network Server' and press 'OK'.



4. Type an appropriate service name.
5. Type the Sybase Load Options (refer to Appendix B).
6. By default the account type is Local System. This account is the system account. You can change it to any individual account also. If you choose individual account, then the service will be tied to that user's account.
7. Checking **Allow service to interact with the desktop** allows the administrator (once logged in) to view connections and messages from the TIMS Database Server.
8. Start the service by clicking the Start button on the main window or go to Control Panel / Services, look for 'SQL Anywhere – *Service Name'* and start the service as you would any Windows service. If you have selected 'Startup Type' as automatic, the service will be available automatically when you boot the server.